

FIG. 1

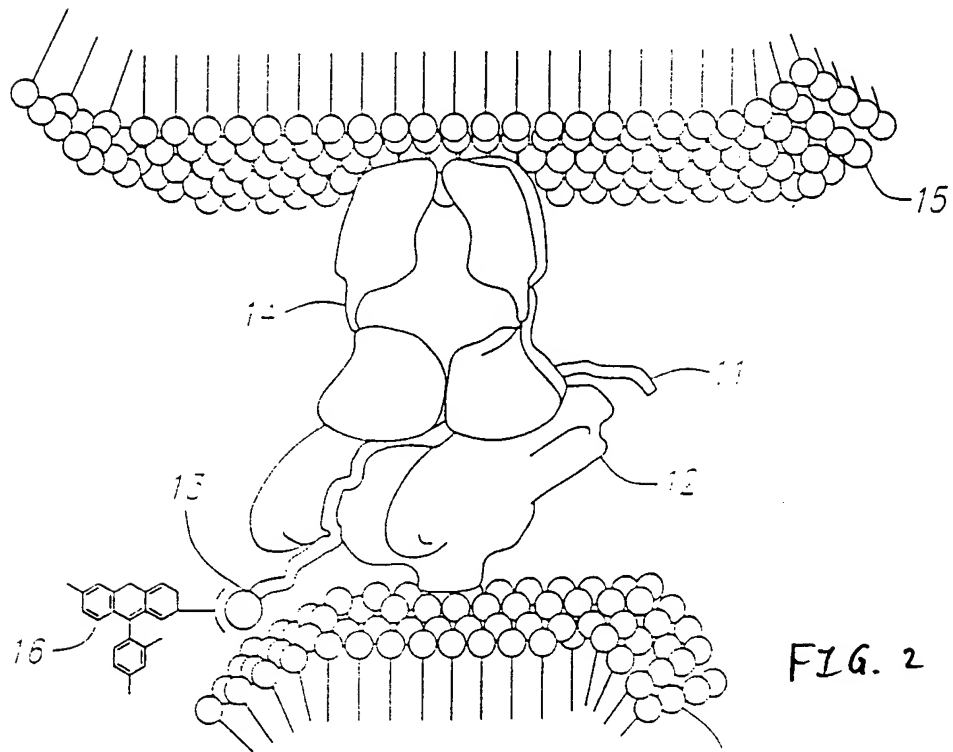
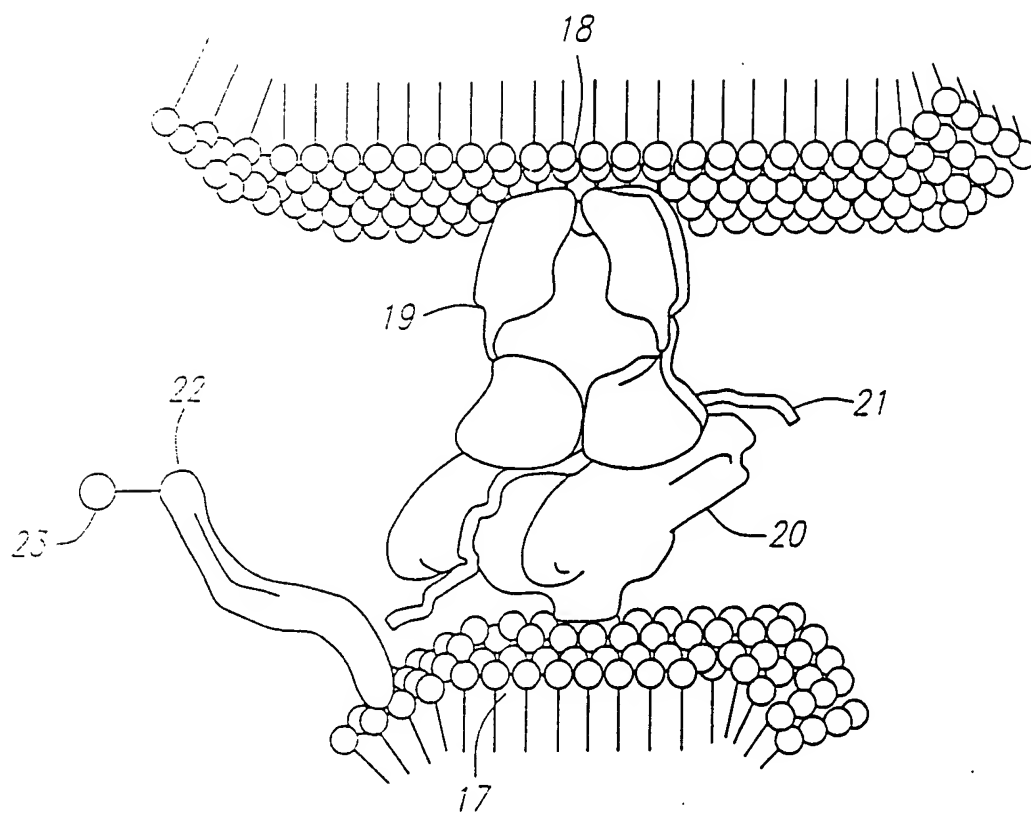
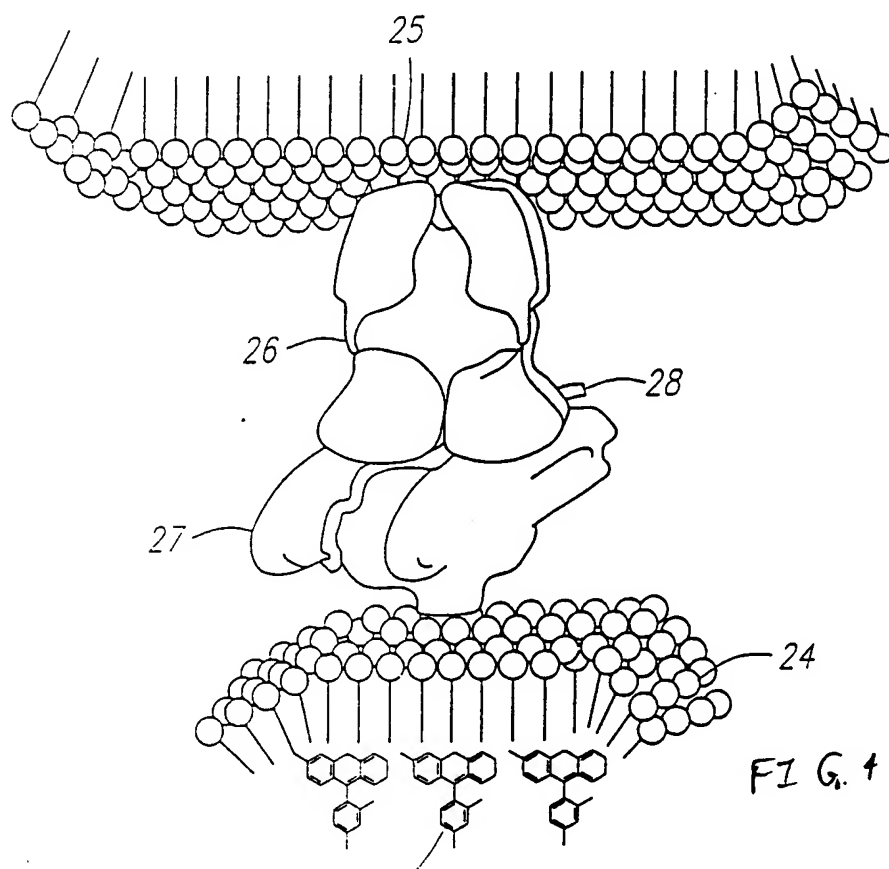


FIG. 2

**FIG. 3****FIG. 4**

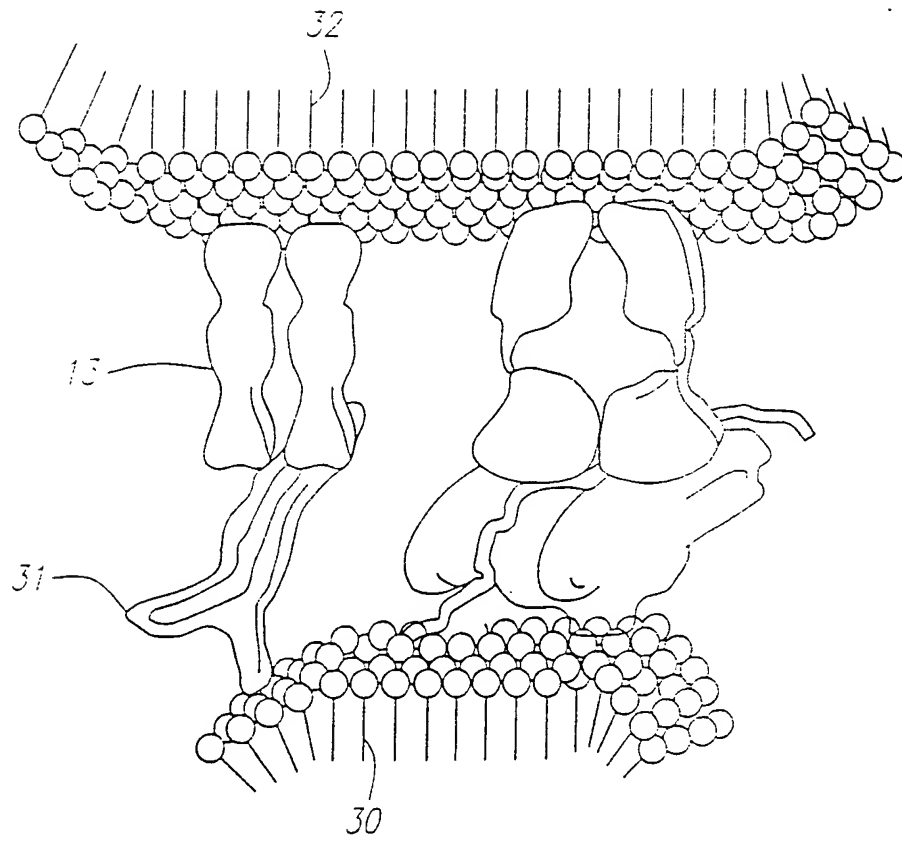


FIG. 5

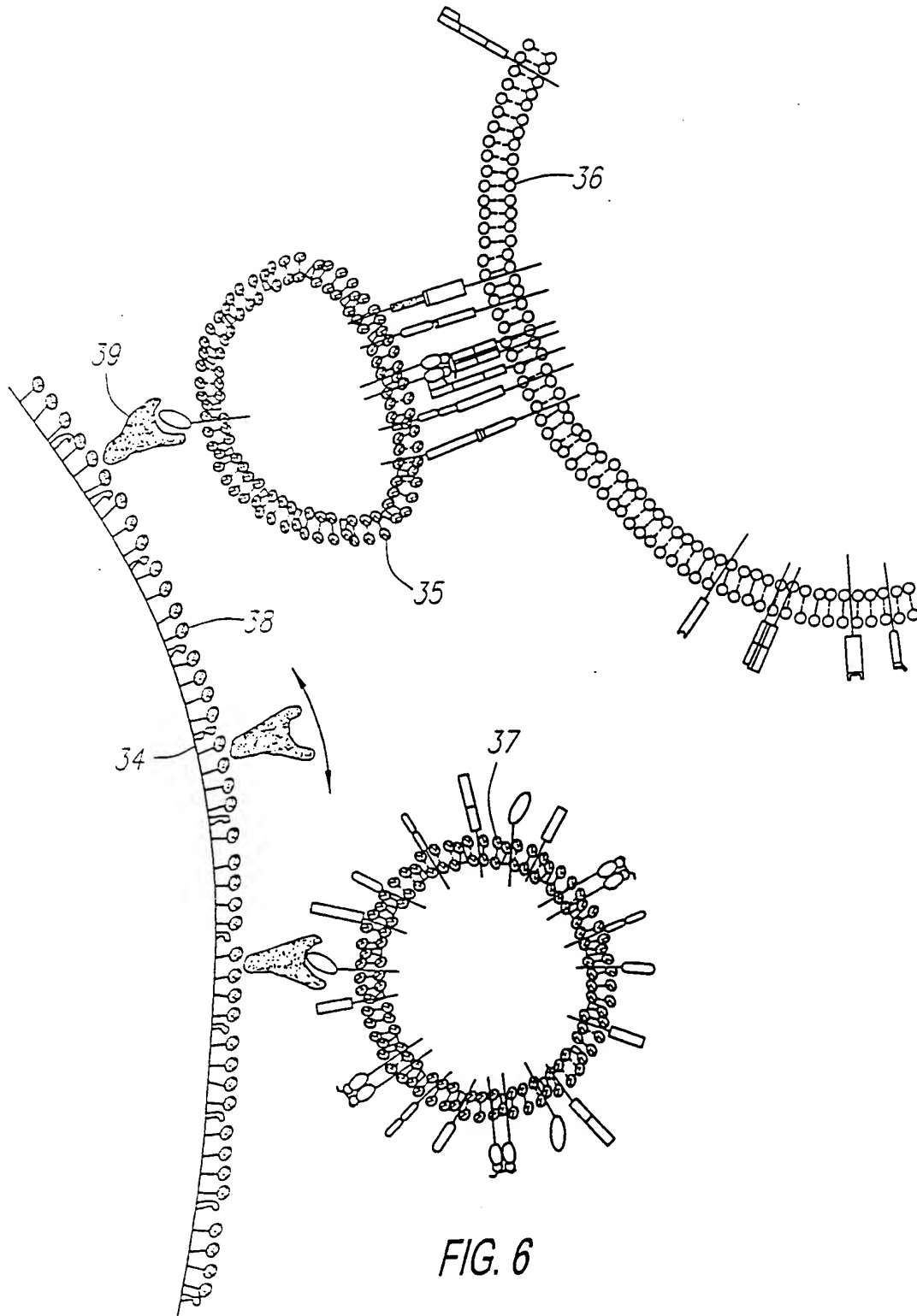


FIG. 6

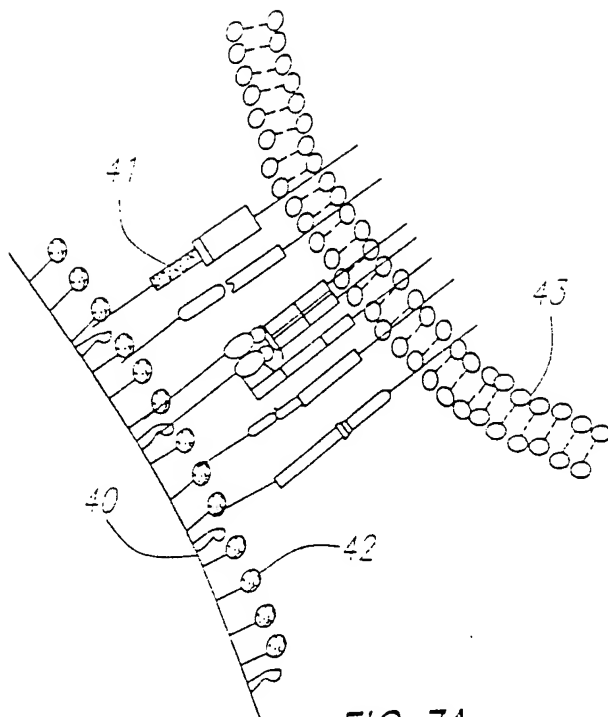


FIG. 7A

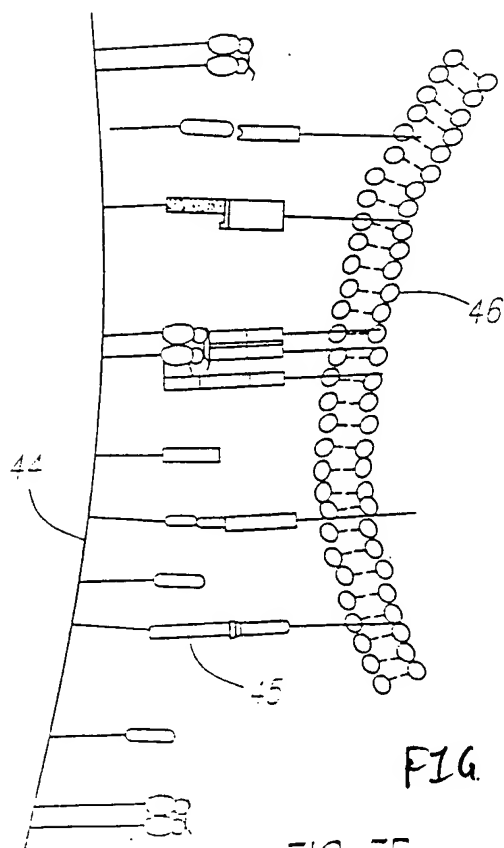


FIG. 7B

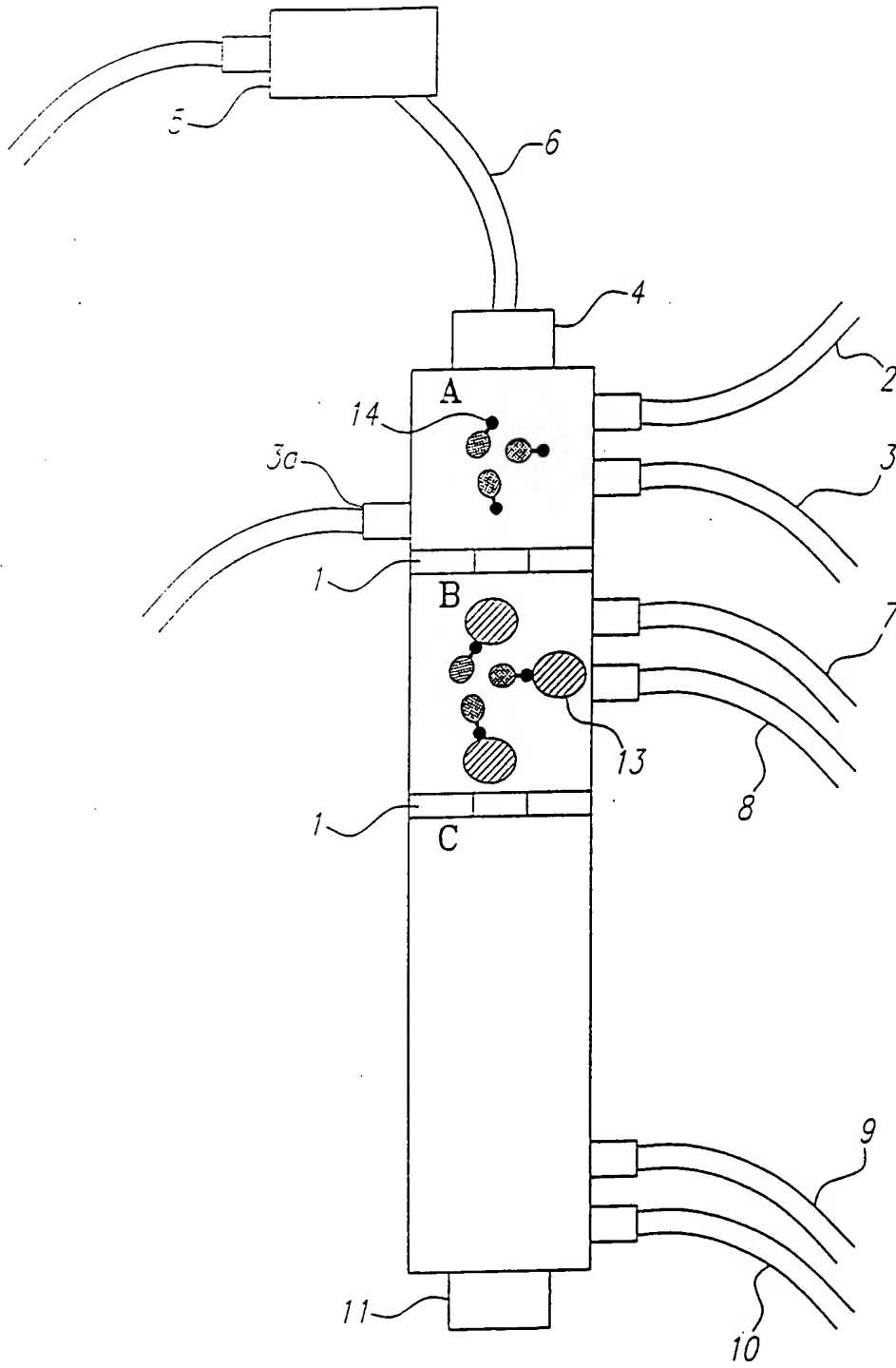
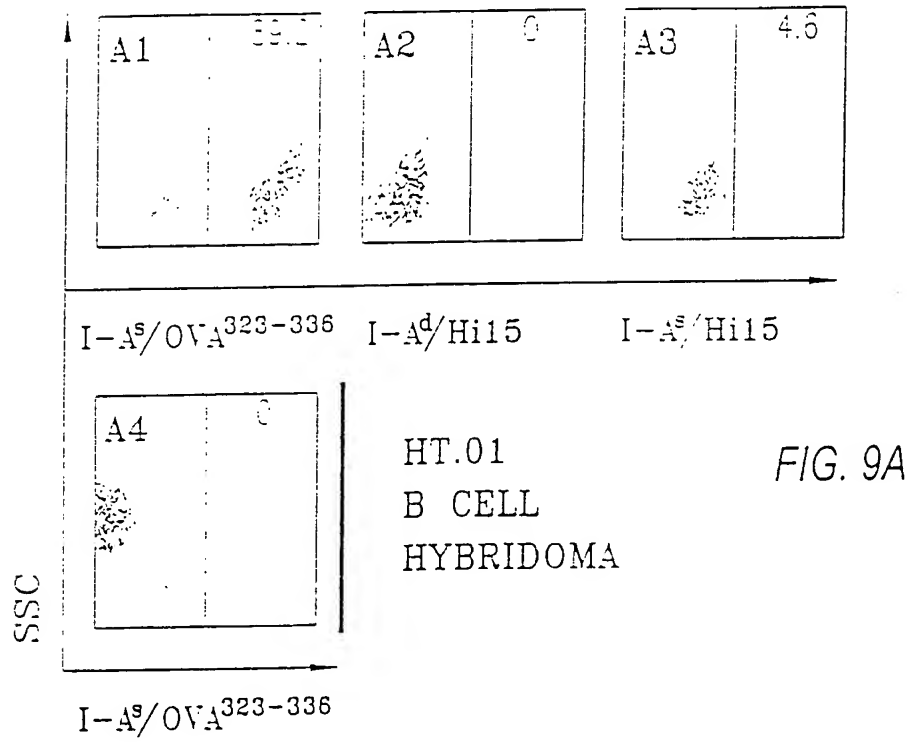


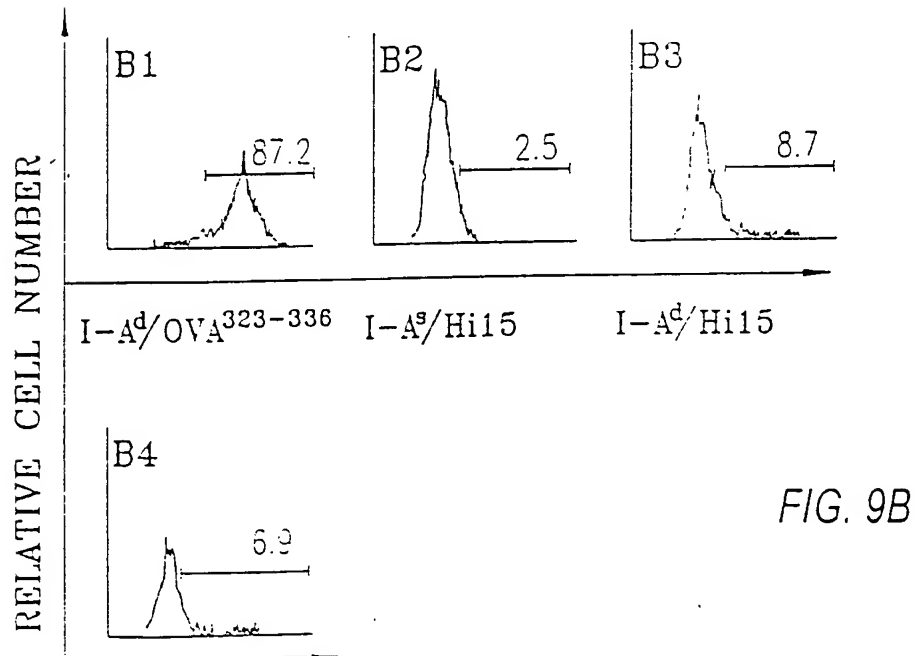
FIG. 8

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AG111.207 T-T HYBRIDOMA  
I-A<sup>s</sup>/OVA<sup>323-336</sup> SPECIFIC



8D051.15 T-T HYBRIDOMA  
I-A<sup>d</sup>/OVA<sup>323-336</sup> SPECIFIC



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BALB/c FTOC

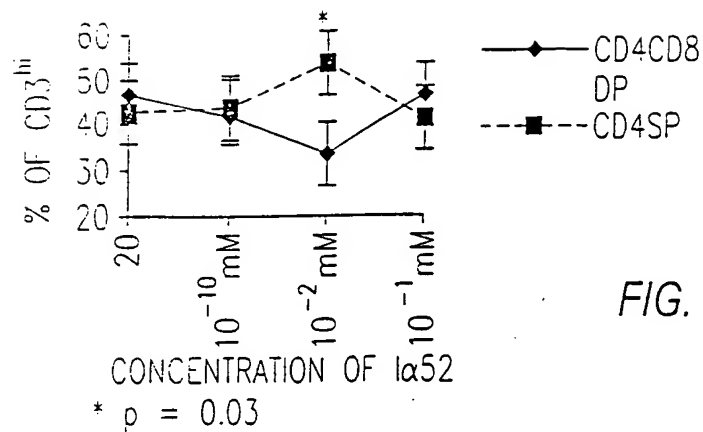


FIG. 10A

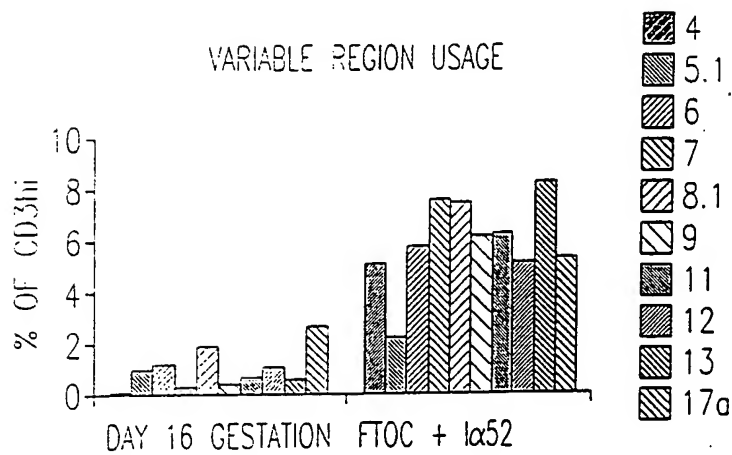
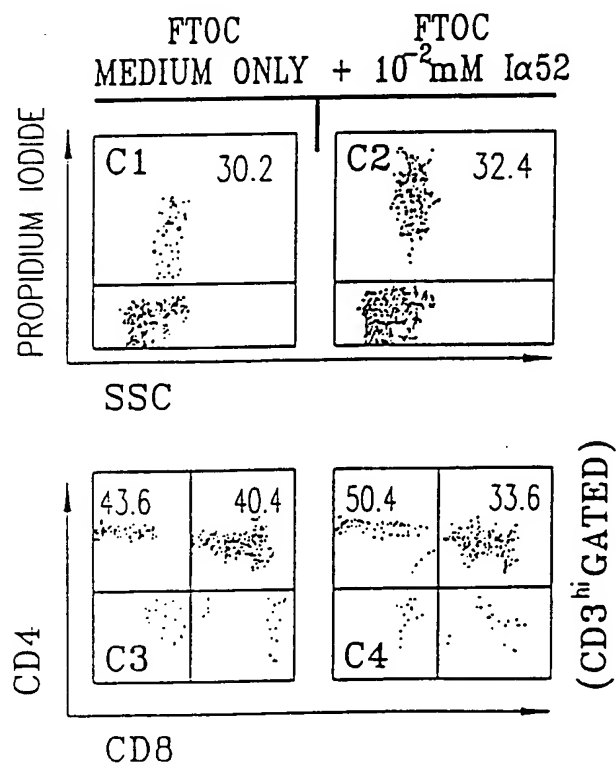


FIG. 10B





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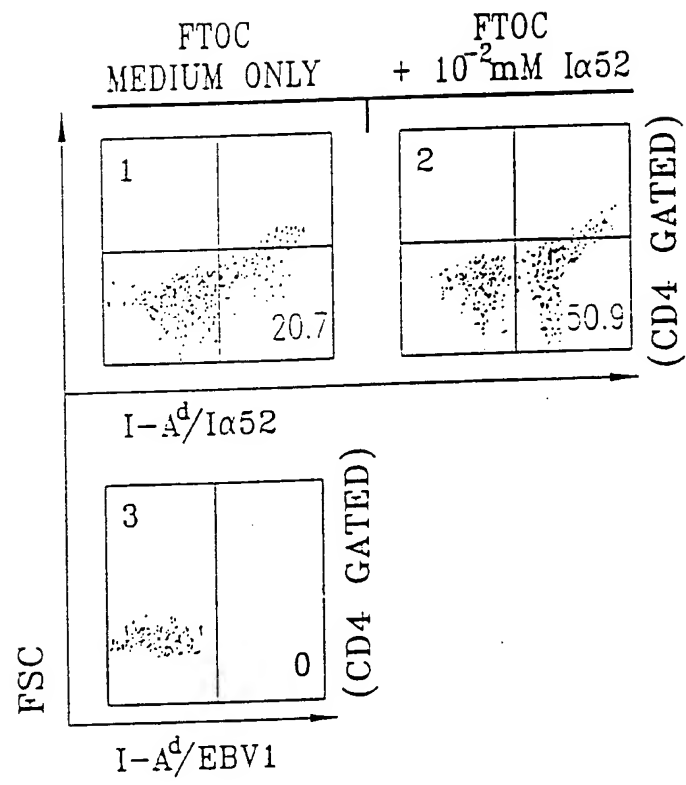


FIG. 11

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I $\alpha$ 52 SUPPLEMENTED FTOC  
Hi15 EXPANDED LINE

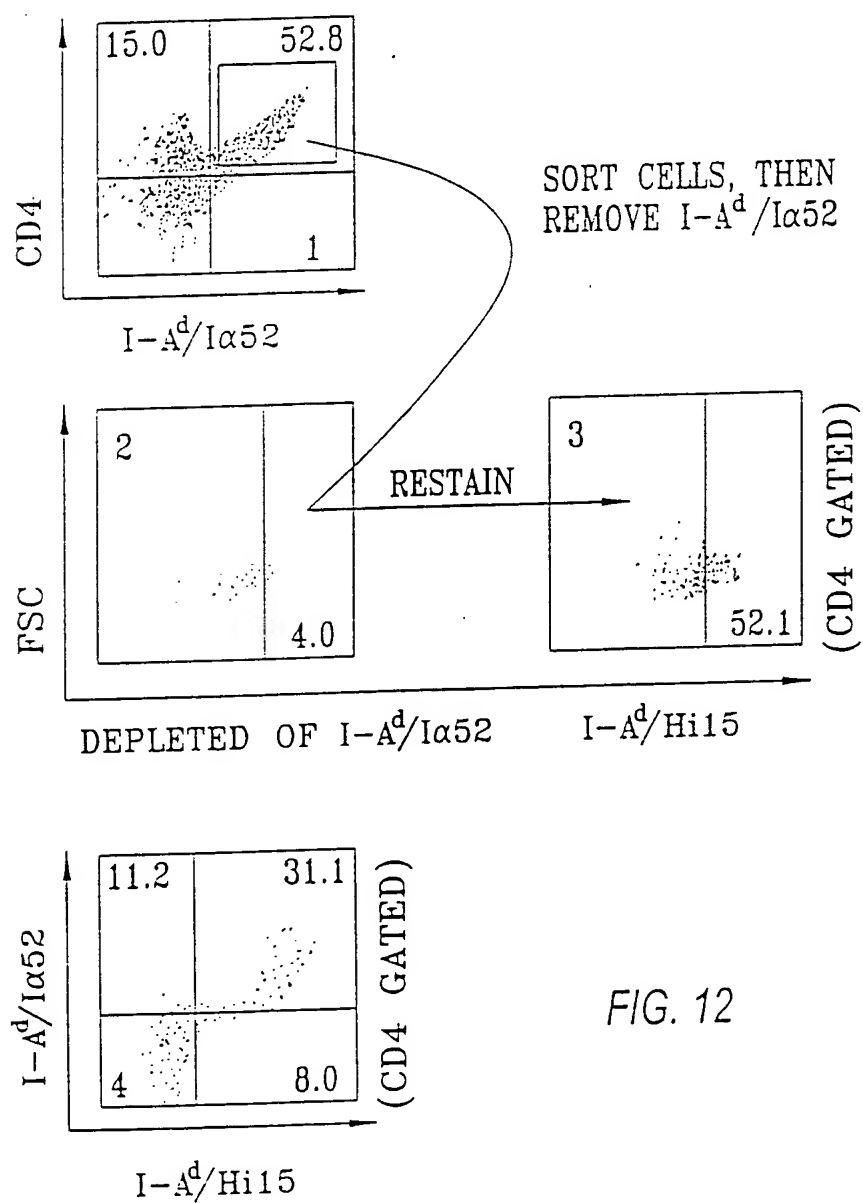


FIG. 12

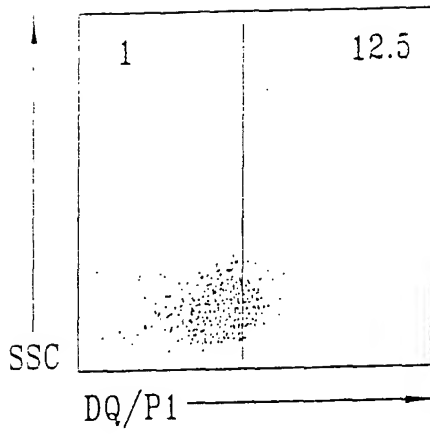


FIG. 13A

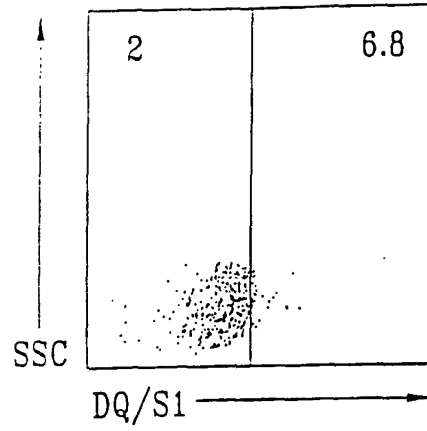


FIG. 13B

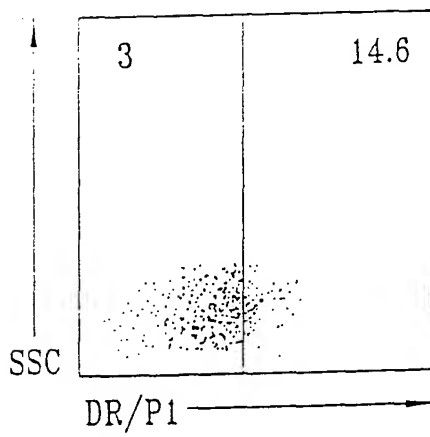


FIG. 13C

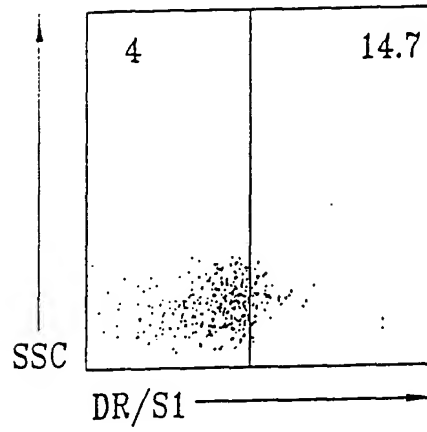


FIG. 13D

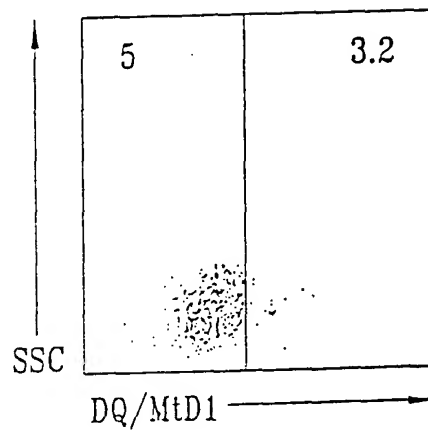


FIG. 13E

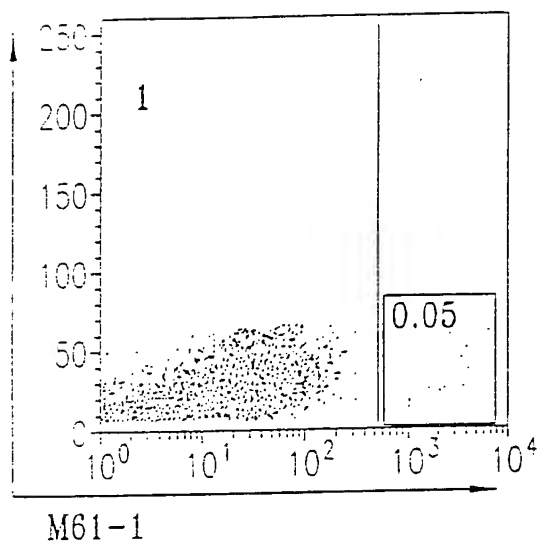


FIG. 14A

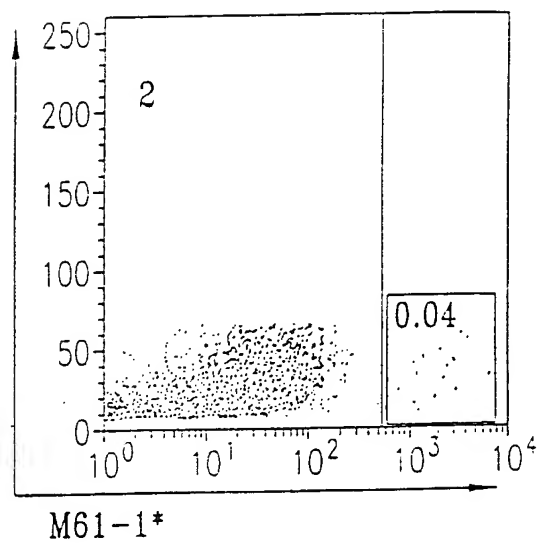


FIG. 14B

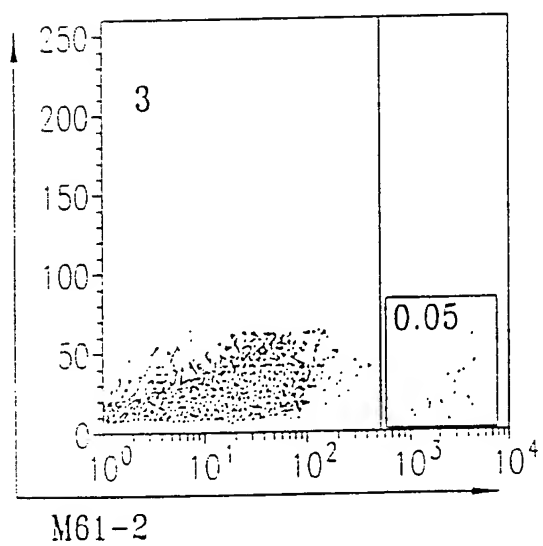


FIG. 14C

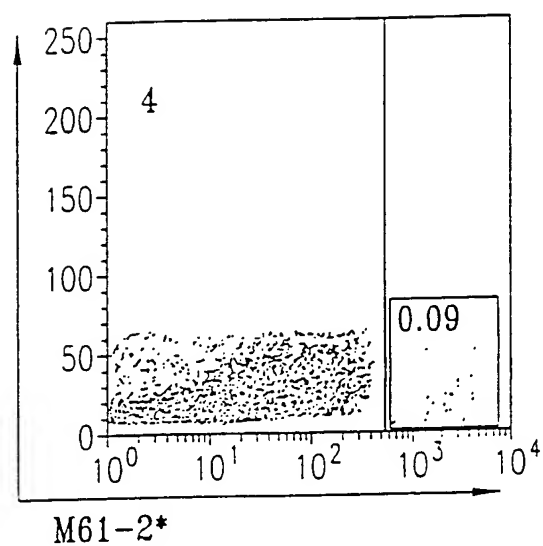


FIG. 14D

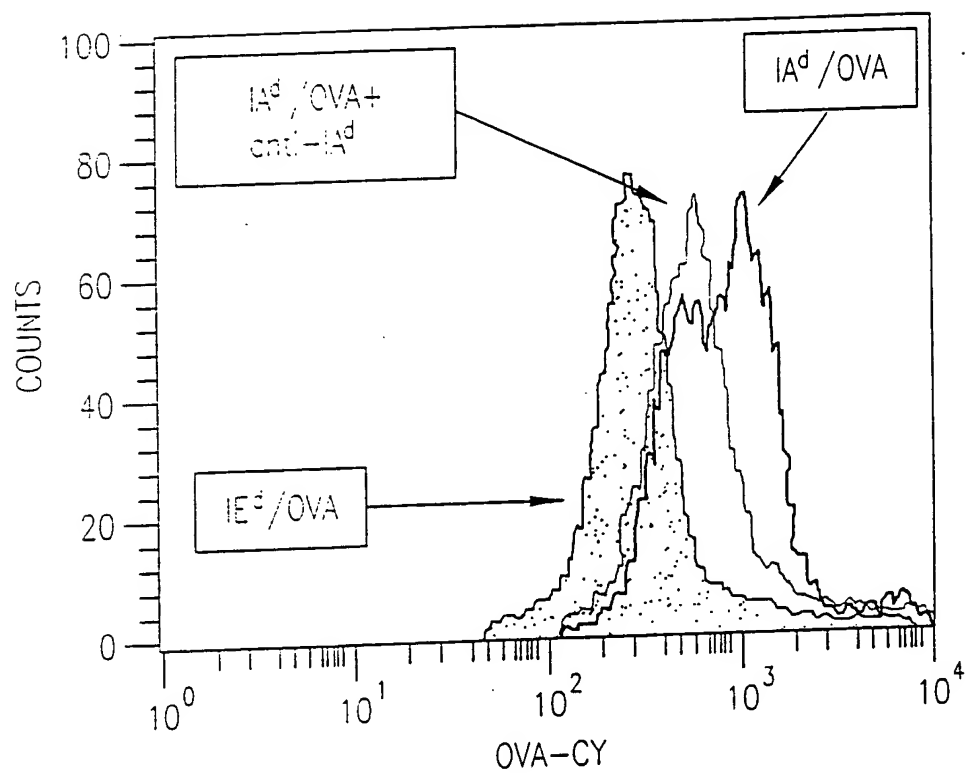
*FIG. 15*

Fig 16A



Fig 16B

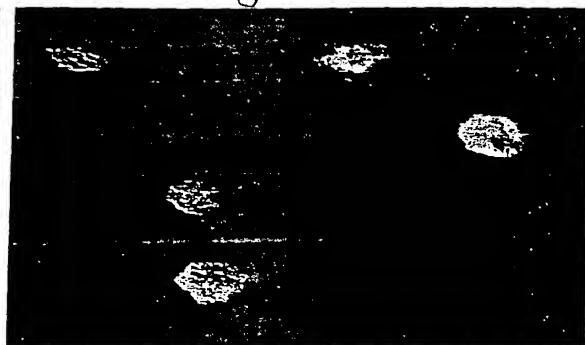


Fig 16C

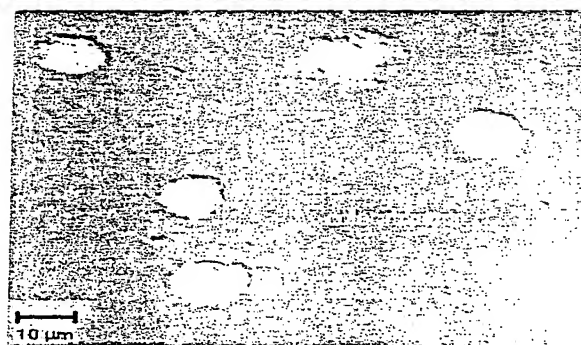


Fig 16D

Fig 17A

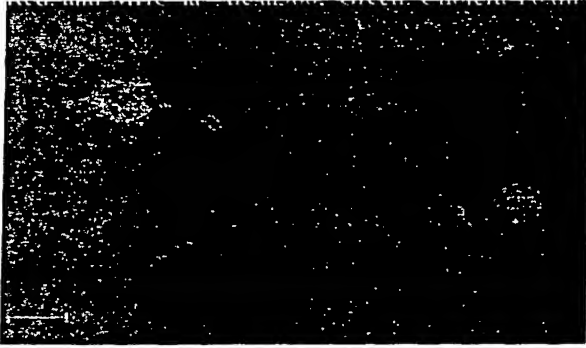


Fig 17B

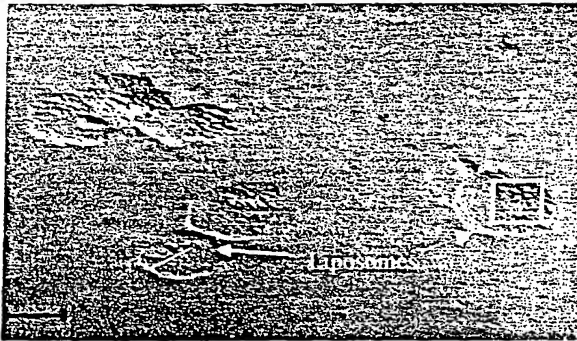
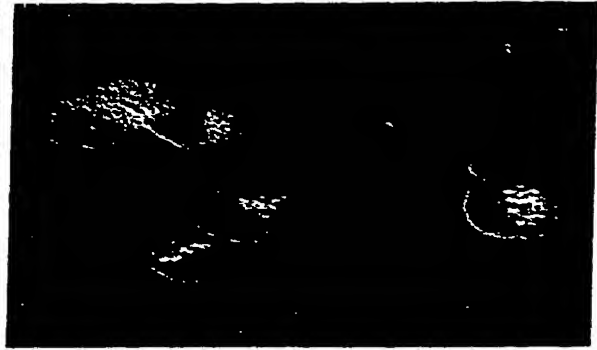


Fig 17C

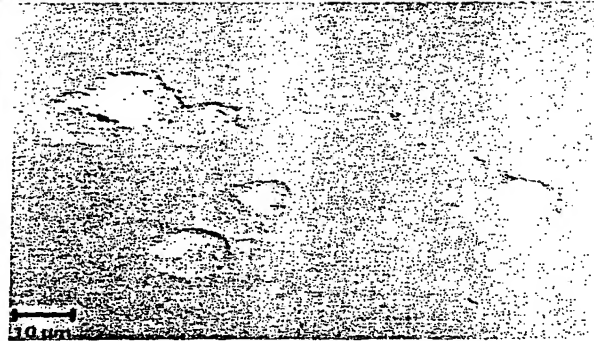


FIG 17D

Fig 18A

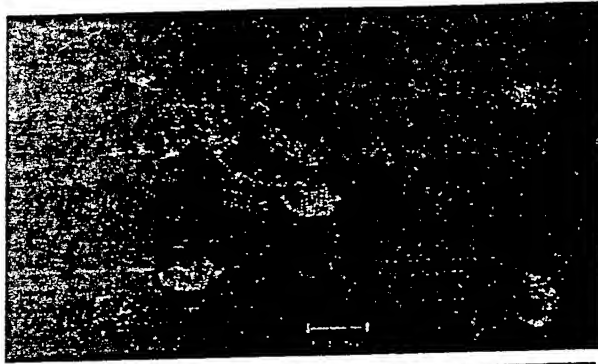


Fig 18B

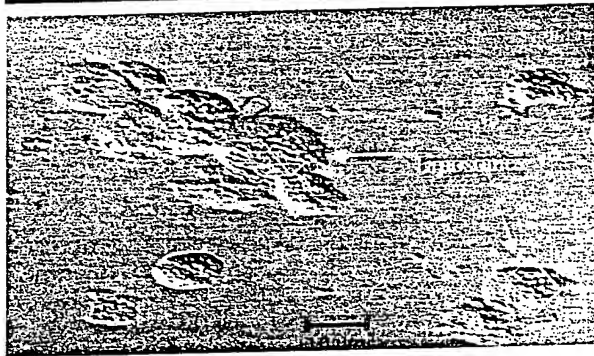


Fig 18C

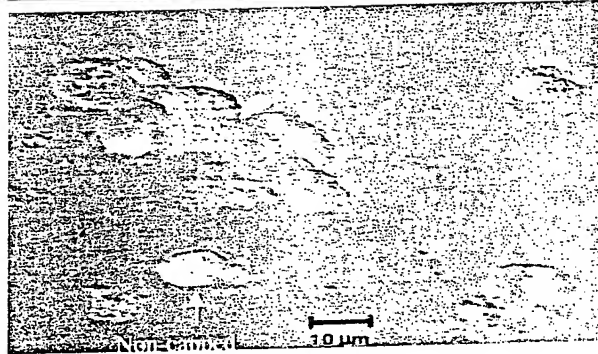


Fig. 18D



FIG. 19A.

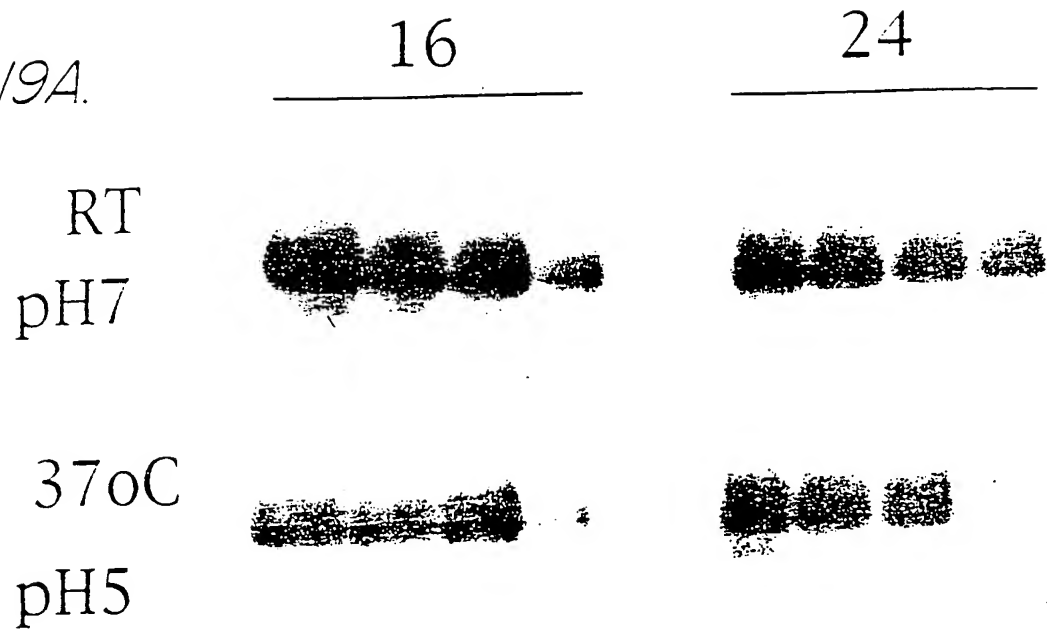


FIG. 19B.

200	20	2	0.1x	200	20	2	0.1x
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FIG. 19C.

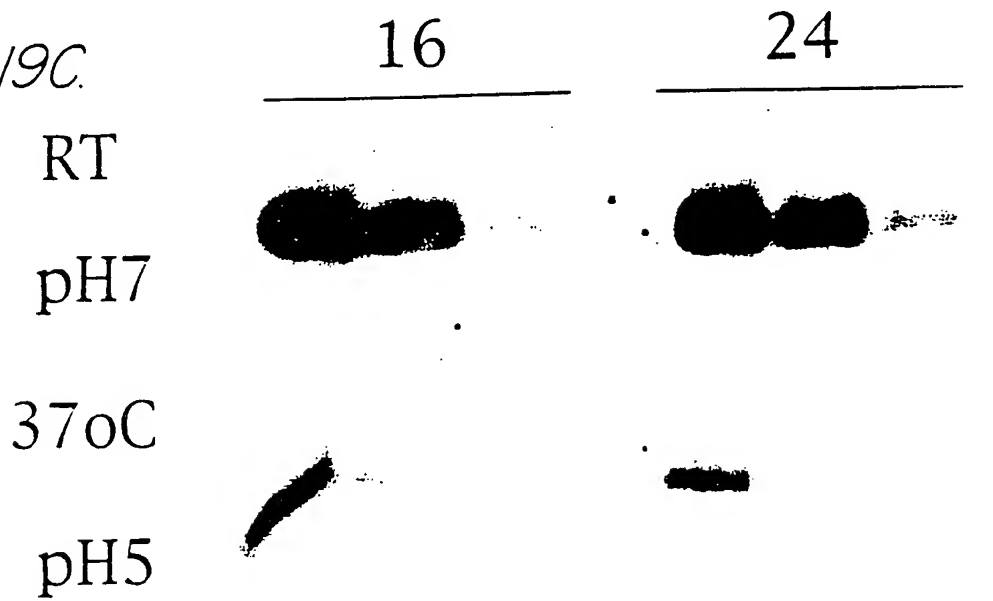


FIG. 19D.

70	10	1x	70	10	1x
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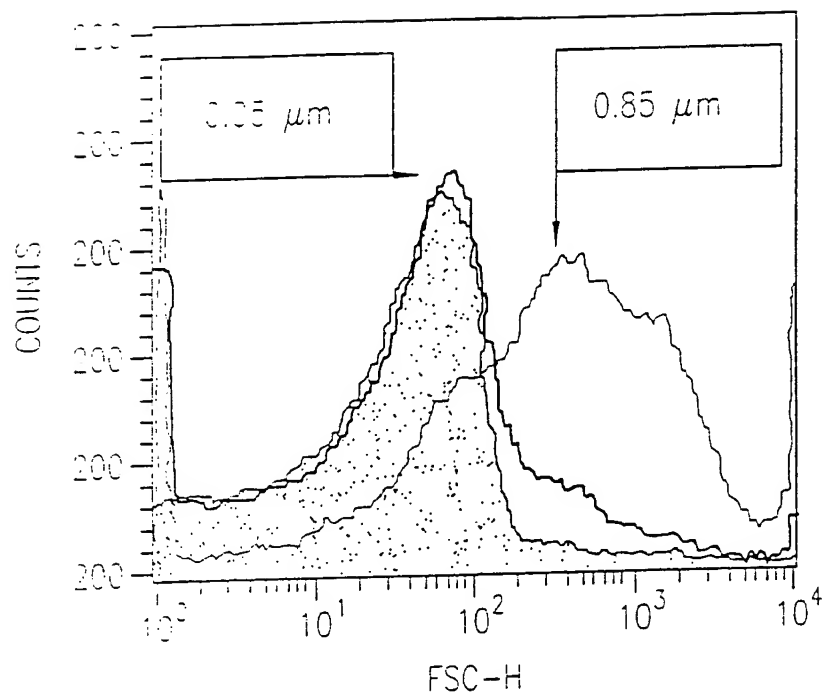


FIG. 20

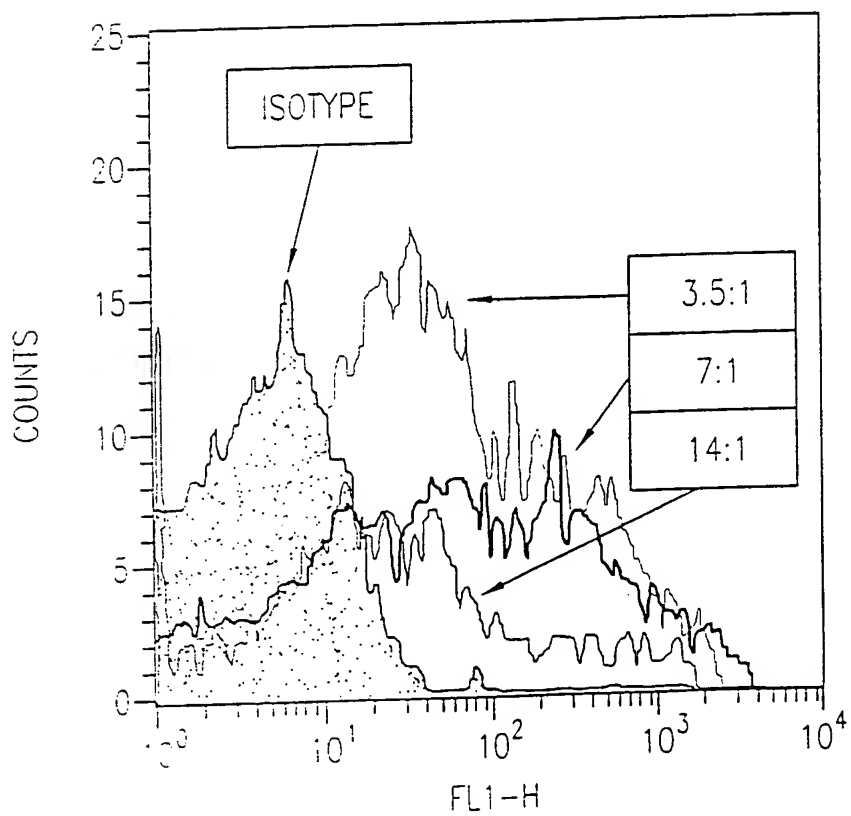
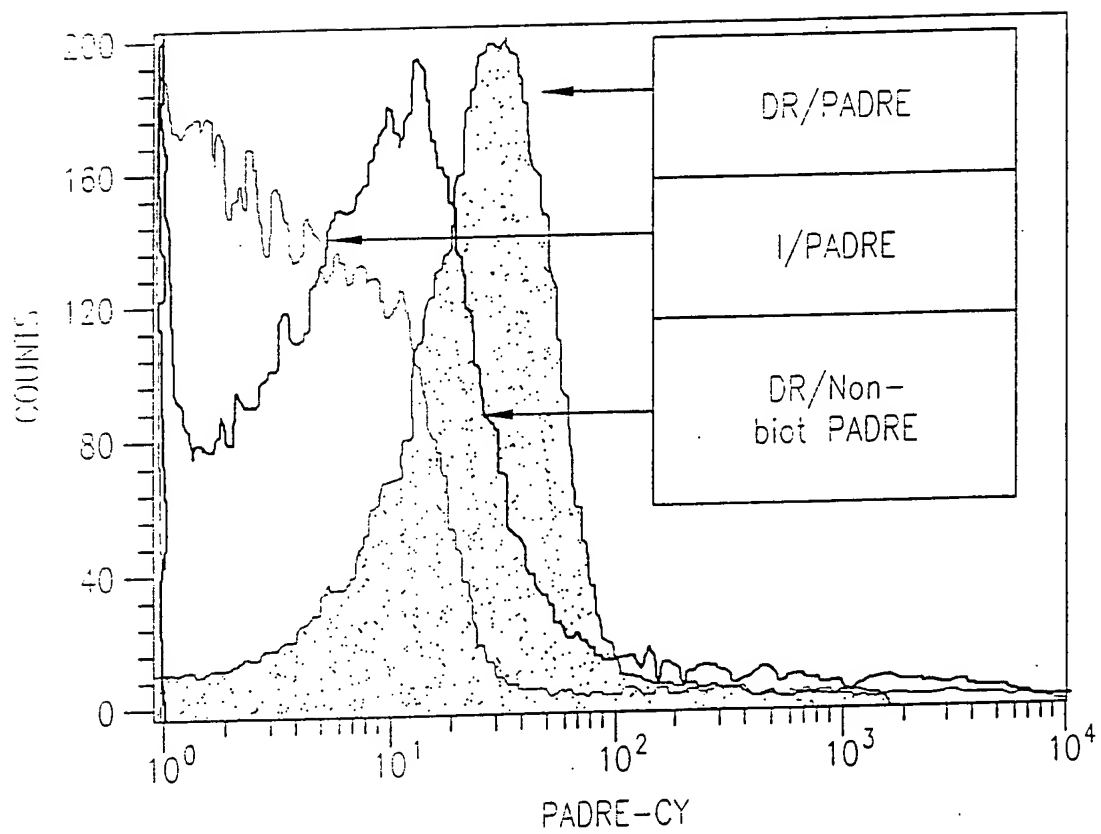
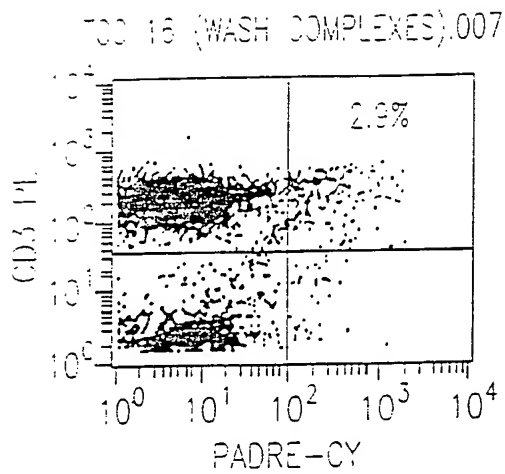
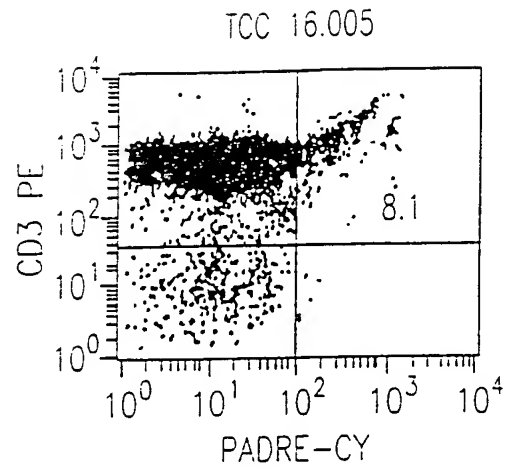
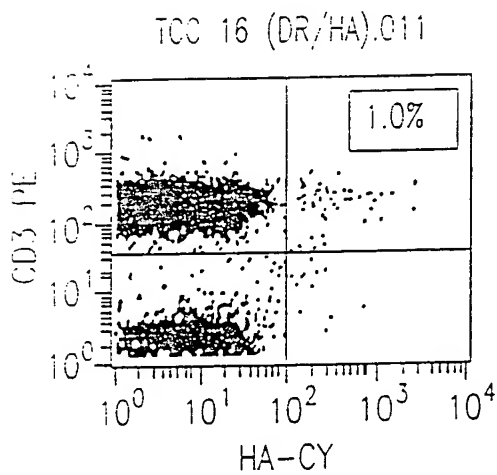
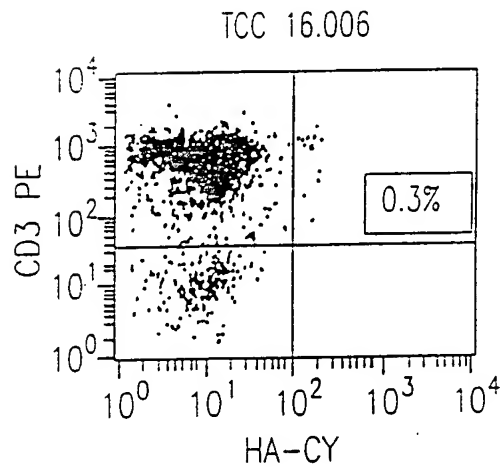
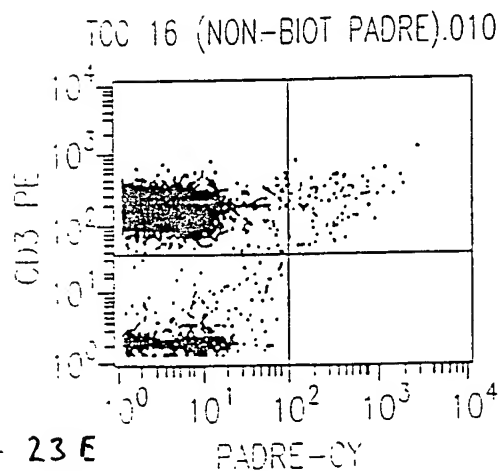
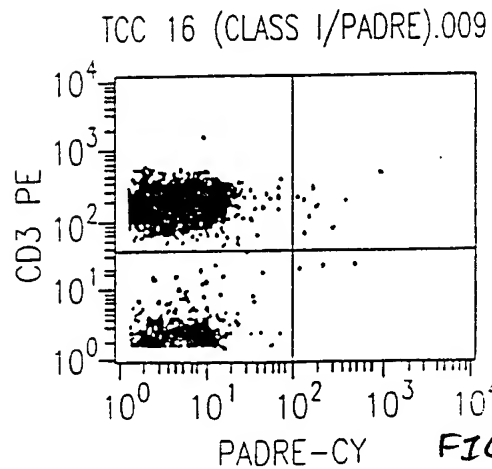
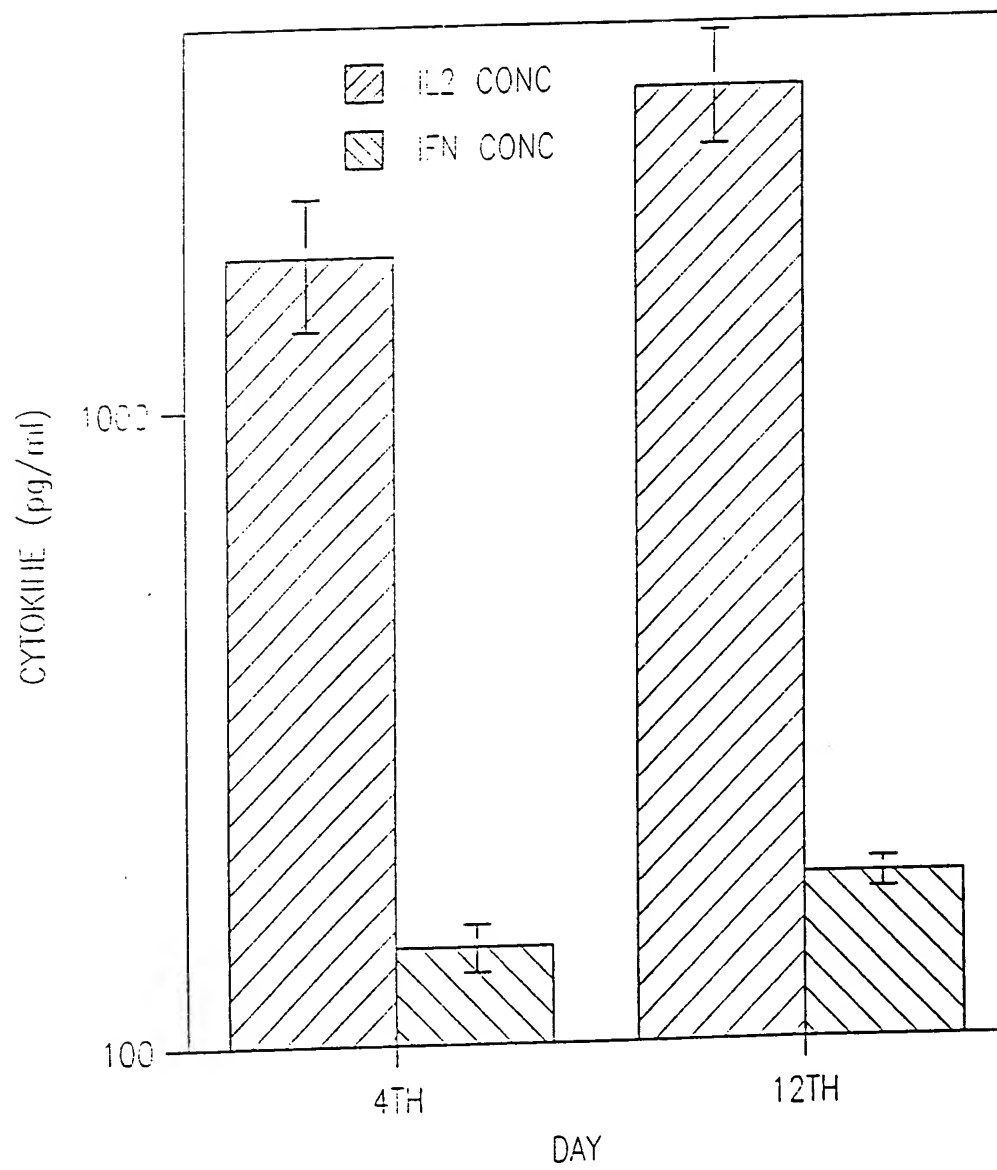
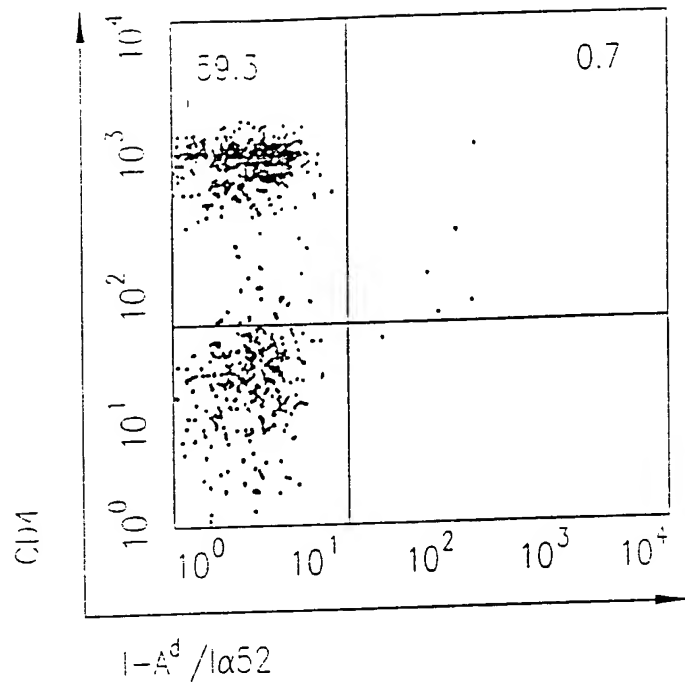


FIG. 21

*FIG. 22*

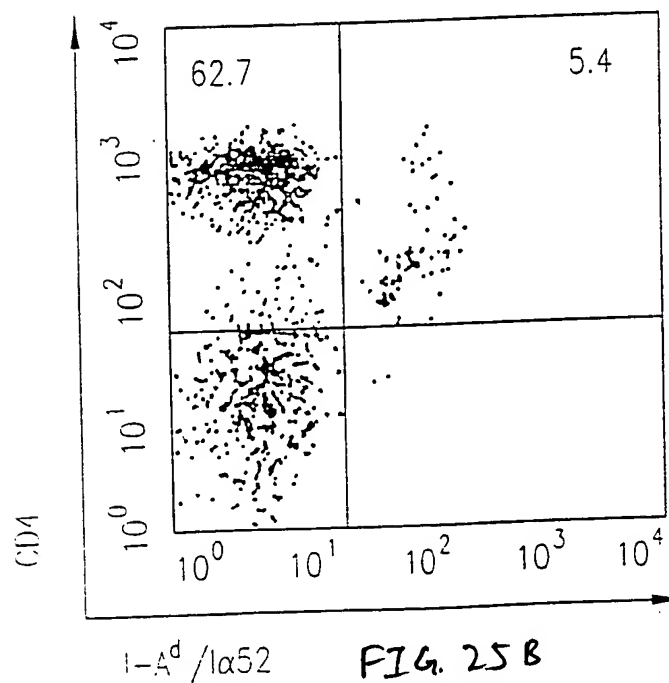
*FIG. 23A**FIG. 23B**FIG. 23C**FIG. 23D**FIG. 23E**FIG. 23F*

*FIG. 24*



ADJUTANT IMMUNIZED  
BALB/c LYMPH NODE  
DERIVED CELLS

FIG. 25A



la52 IMMUNIZED  
BALB/c LYMPH NODE  
DERIVED CELLS

FIG. 25B  
FIG. 25B

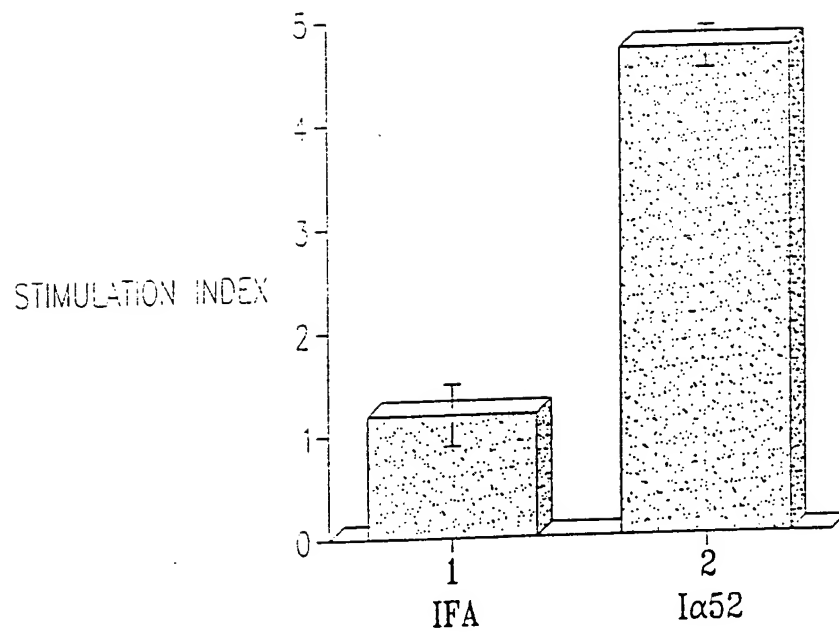


FIG. 26

FIG. 27A

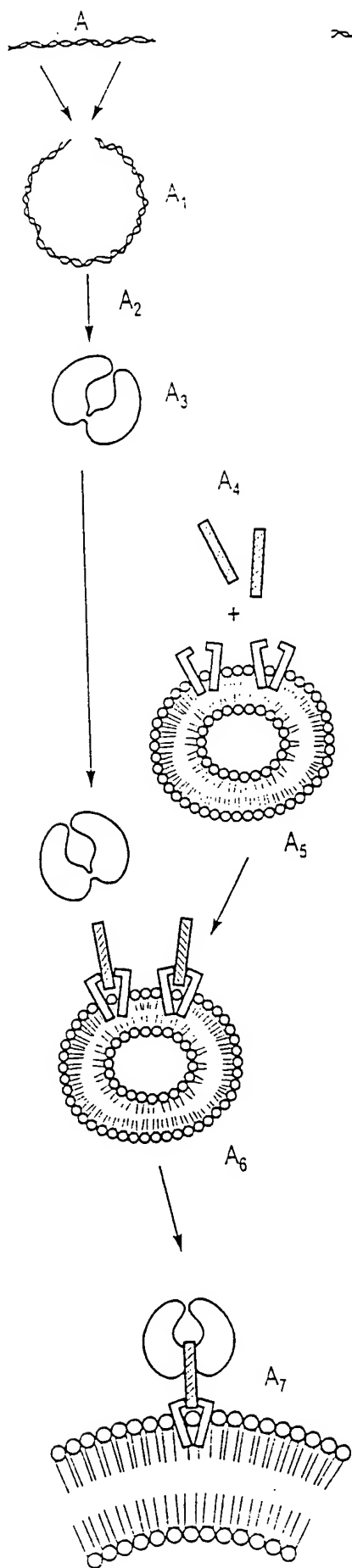


FIG. 27B

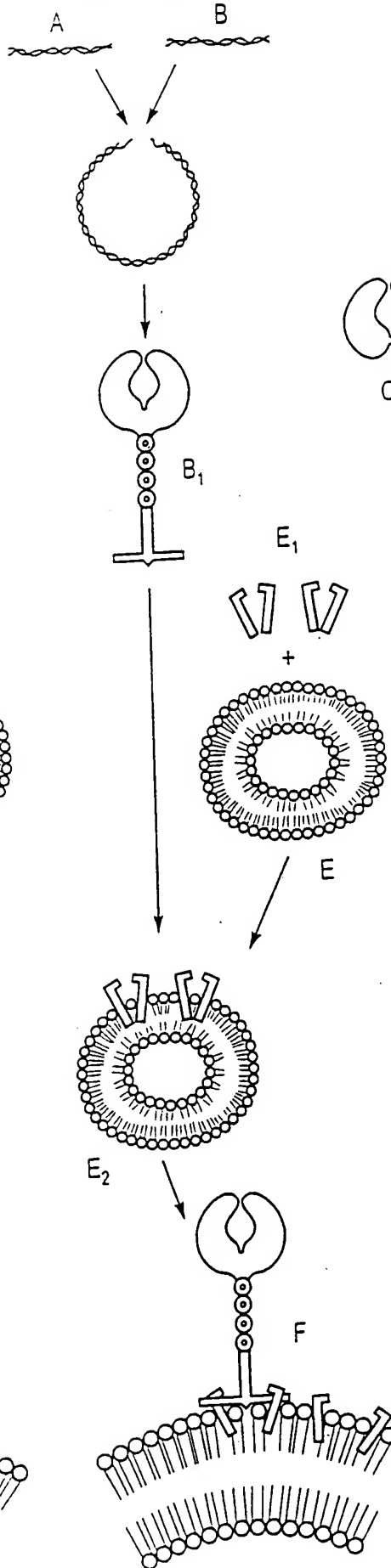
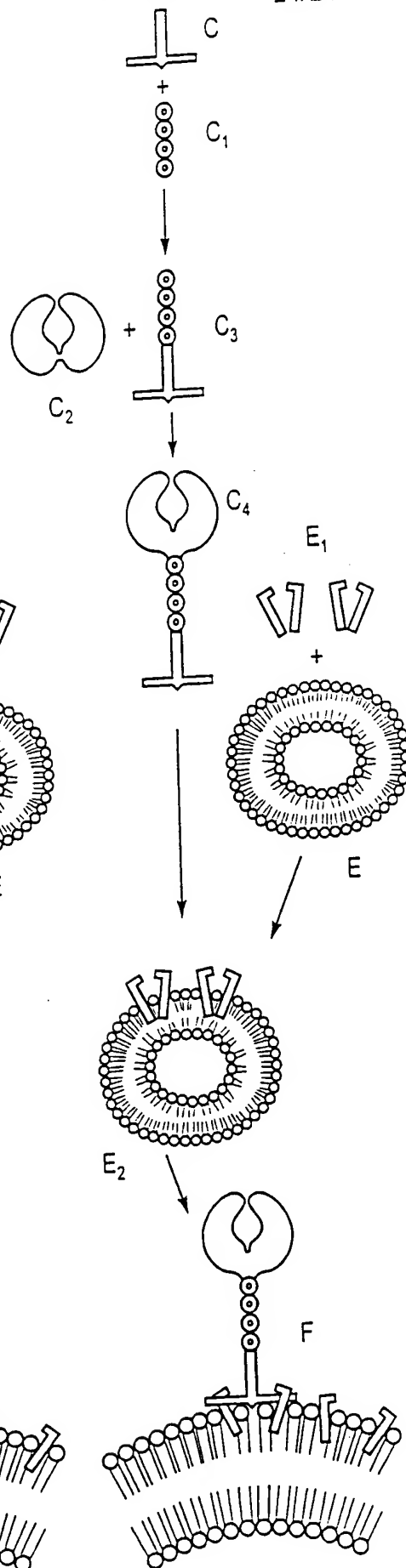


FIG. 27C





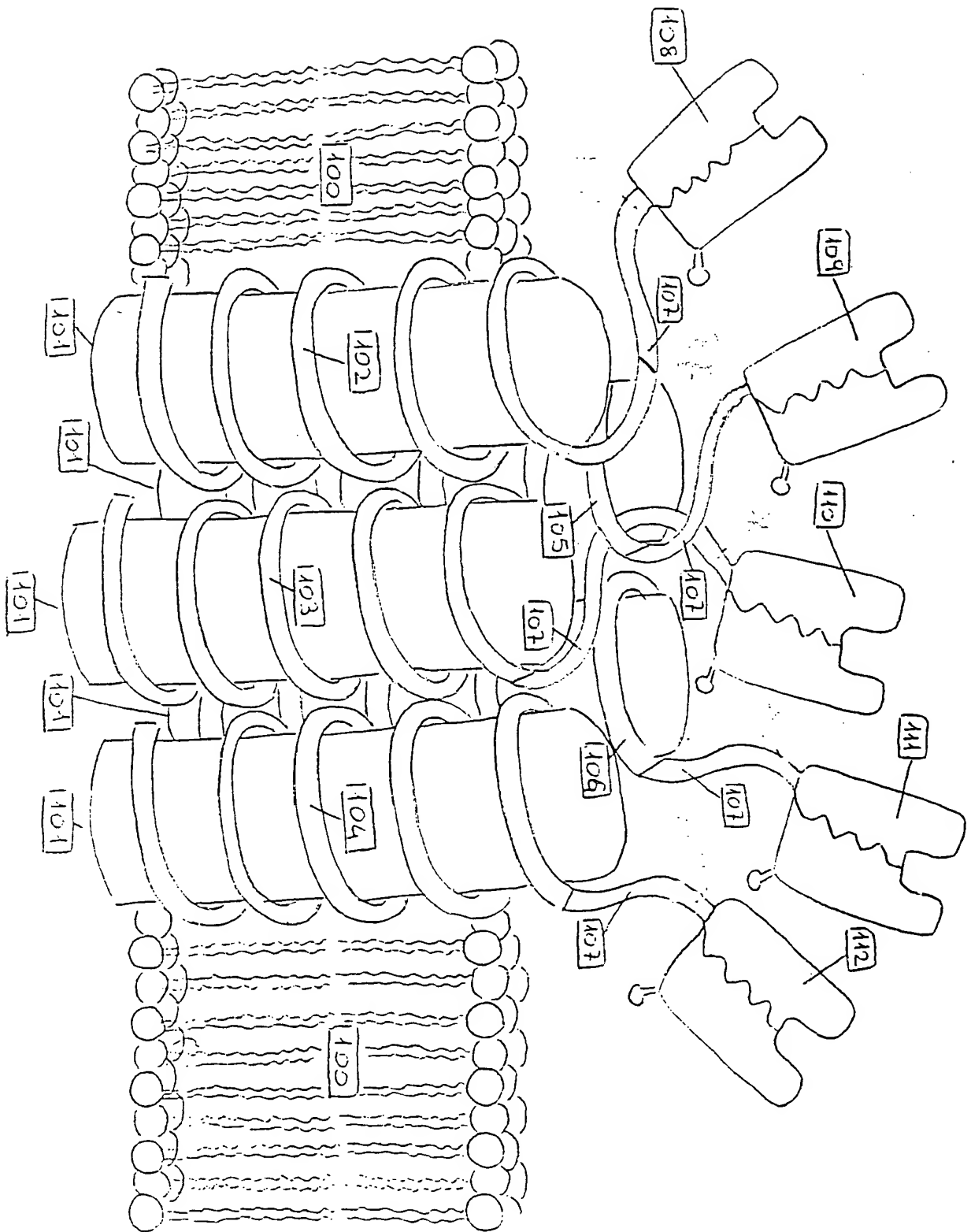


Fig 28

BT.1-CTB construct translation DNA-PROTEIN

```

M  G  H  T  R  R  Q  G  T  S  P  S  K  C  P  Y  L  N  F  F
atg ggc cac aca cgg agg cag gga aca tca cca tcc aag tgt cca tac ctc aat ttc ttt

Q  L  L  V  L  A  G  L  S  H  F  C  S  G  V  I  H  V  T  K
cag ctc ttg gtg ctg gct ggt ctt tct cac ttc tgt tca ggt gtt atc cac gtg acc aag

E  V  K  E  V  A  T  L  S  C  G  H  N  V  S  V  E  E  L  A
gaa gtg aaa gaa gtg gca acg ctg tcc tgt ggt cac aat gtt tct gtt gaa gag ctg gca

Q  T  R  I  Y  W  Q  K  E  K  K  M  V  L  T  M  M  S  G  D
caa act cgc atc tac tgg caa aag gag aag aaa atg gtg ctg act atg atg tct ggg gac

M  N  I  W  P  E  Y  K  N  R  T  I  F  D  I  T  N  N  L  S
atg aat ata tgg ccc gag tac aag aac cgg acc atc ttt gat atc act aat aac ctc tcc

I  V  I  L  A  L  R  P  S  D  E  G  T  Y  E  C  V  V  L  K
att gtg atc ctg gct ctg cgc cca tct gac gag ggc aca tac gag tgt gtt gtt ctg aag

Y  E  K  D  A  F  K  R  E  H  L  A  E  V  T  L  S  V  K  A
tat gaa aaa gac gct ttc aag cgg gaa cac ctg gct gaa gtg acg tta tca gtc aaa gct

D  F  P  T  P  S  I  S  D  F  E  I  P  T  S  N  I  R  R  I
gac ttc cct aca cct agt ata tct gac ttt gaa att cca act tct aat att aga agg ata

I  C  S  T  S  G  G  F  P  E  P  H  L  S  W  L  E  N  G  E
att tgc tca acc tct gga ggt ttt cca gag cct cac ctc tcc tgg ttg gaa aat gga gaa

E  L  N  A  I  N  T  T  V  S  Q  D  P  E  T  E  L  Y  A  V
gaa tta aat gcc atc aac aca aca gtt tcc caa gat cct gaa act gag ctc tat gct gtt

S  E  F  G  G  S  G  G  S  A  T  P  Q  N  I  T  D  L  C
agc gaa ttc ggc ggc tcc ggt ggt agc gcc aca cct caa aat att act gat ttg tgt

A  E  Y  H  N  T  Q  I  H  T  L  N  D  K  I  F  S  Y  T  E
gca gaa tac cac aac aca caa ata cat acg cta aat gat aag ata ttt tcg tat aca gaa

S  L  A  G  K  R  E  M  A  I  I  T  F  K  N  G  A  T  F  Q
tct cta gct gga aaa aga gag atg gct atc att act ttt aag aat ggt gca act ttt caa

V  E  V  P  G  S  Q  H  I  D  S  Q  K  K  A  I  E  R  M  K
gta gaa gta cca ggt agt caa cat ata gat tca caa aaa aaa gcg att gaa agg atg aag

D  T  L  R  I  A  Y  L  T  E  A  K  V  E  K  L  C  V  W  N
gat acc ctg agg att gca tat ctt act gaa gct aaa gtc gaa aag tta tgt gta tgg aat

N  K  T  P  H  A  I  A  A  I  S  M  A  N  *
aat aaa acg cct cat gcg att gcc gca att agt atg gca aat taa

```

Fig 29

BT.2-CTB construct translation DNA-PROTEIN

```

M  G  L  S  N  I  L  F  V  M  A  F  L  L  S  G  A  A  P  L
atg gga ctg agt aac att ctc ttt gtg atg gcc ttc ctg ctc tct ggt gct gct cct ctg

K  I  Q  A  Y  F  N  E  T  A  D  L  P  C  Q  F  A  N  S  Q
aag att caa gct tat ttc aat gag act gca gac ctg cca tgc caa ttt gca aac tct caa

N  Q  S  L  S  E  L  V  V  F  W  Q  D  Q  E  N  L  V  L  N
aac caa agc ctg agt gag cta gta gta ttt tgg cag gac cag gaa aac ttg gtt ctg aat

E  V  Y  L  G  K  E  K  F  D  S  V  H  S  K  Y  M  G  R  T
gag gta tac tta ggc aaa gag aaa ttt gac agt gtt cat tcc aag tat atg ggc cgc aca

S  F  D  S  D  S  W  T  L  R  L  H  N  L  Q  I  K  D  K  G
agt ttt gat tgc gac agt tgg acc ctg aga ctt cac aat ctt cag atc aag gac aag ggc

L  Y  Q  C  I  I  H  H  K  K  P  T  G  M  I  R  I  H  Q  M
ttg tat caa tgt atc atc cat cac aaa aag ccc aca gga atg att cgc atc cac cag atg

N  S  E  L  S  V  L  A  N  F  S  Q  P  E  I  V  P  I  S  N
aat tct gaa ctg tca gtg ctt gct aac ttc agt caa cct gaa ata gta cca att tct aat

I  T  E  N  V  Y  I  N  L  T  C  S  S  I  H  G  Y  P  E  P
ata aca gaa aat gtg tac ata aat ttg acc tgc tca tct ata cac ggt tac cca gaa cct

K  K  M  S  V  L  L  R  T  K  N  S  T  I  E  Y  D  G  I  M
aag aag atg agt gtt ttg cta aga acc aag aat tca act atc gag tat gat ggt att atg

Q  K  S  Q  D  N  V  T  E  L  Y  D  V  S  I  S  L  S  V  S
cag aaa tct caa gat aat gtc aca gaa ctg tac gac gtt tcc atc agc ttg tct gtt tca

F  P  D  V  T  S  N  M  T  I  F  C  I  L  E  T  D  K  T  R
ttc cct gat gtt acg agc aat atg acc atc ttc tgt att ctg gaa act gac aag acg cgg

L  L  S  S  P  F  S  I  E  L  E  D  P  Q  P  P  P  D  H  E
ctt tta tct tca cct ttc tct ata gag ctt gag gac cct cag cct ccc cca gac cac gaa

F  G  G  S  G  G  S  A  T  P  Q  N  I  T  D  L  C  A  E
ttc ggc ggc tcc ggt ggt agc gcc aca cct caa aat att act gat ttg tgt gca gaa

Y  H  N  T  Q  I  H  T  L  N  D  K  I  F  S  Y  T  E  S  L
tac cac aac aca caa ata cat acg cta aat gat aag ata ttt tgc tat aca gaa tct cta

A  G  K  R  E  M  A  I  I  T  F  K  N  G  A  T  F  Q  V  E
gct gga aaa aga gag atg gct atc att act ttt aag aat ggt gca act ttt caa gta gaa

V  P  G  S  Q  H  I  D  S  Q  K  K  A  I  E  R  M  K  D  T
gta cca ggt agt caa cat ata gat tca caa aaa aaa gcg att gaa agg atg aag gat acc

L  R  I  A  Y  L  T  E  A  K  V  E  K  L  C  V  W  N  N  K
ctg agg att gca tat ctt act gaa gct aaa gtc gaa aag tta tgt gta tgg aat aat aaa

T  F  H  A  I  A  A  I  S  M  A  N  *
acg cct cat gcg att gcc gca att agt atg gca aat taa

```

DRAL-CTE construct translation PROTEIN-DNA

```

M A I S G V P V L G F F I I A V L M S A
ATG GCC ATA AGT GGA GTC CCT GTG CTA GGA TTT TTC ATC ATA GCT GTG CTG ATG AGC GCT

Q E S W A I K E E H V I I Q A E F Y L N
CAG GAA TCA TGG GCT ATC AAA GAA GAA CAT GTG ATC ATC CAG GCC GAG TTC TAT CTG AAT

P D Q S G E F M F D F D G D E I F H V D
CCT GAC CAA TCA GGC GAG TTT ATG TTT GAC TTT GAT GGT GAT GAG ATT TTC CAT GTG GAT

M A K K E T V W R L E E F G R F A S F E
ATG GCA AAG AAG GAG ACG GTC TGG CGG CTT GAA GAA TTT GGA CGA TTT GCC AGC TTT GAG

A Q G A L A N I A V D K A N L E I M T K
GCT CAA GGT GCA TTG GCC AAC ATA GCT GTG GAC AAA GCC AAC CTG GAA ATC ATG ACA AAG

R S N Y T P I T N V P P E V T V L T N S
CGC TCC AAC TAT ACT CCG ATC ACC AAT GTA CCT CCA GAG GTA ACT GTG CTC ACG AAC AGC

P V E L R E P N V L I C F I D K F T P P
CCT GTG GAA CTG AGA GAG CCC AAC GTC CTC ATC TGT TTC ATC GAC AAG TTC ACC CCA CCA

V V N V T W L R N G K P V T T G V S E T
GTG GTC AAT GTC ACG TGG CTT CGA AAT GGA AAA CCT GTC ACC ACA GGA GTG TCA GAG ACA

V F L P R E D H L F R K F H Y L P F L P
GTC TTC CTG CCC AGG GAA GAC CAC CTT TTC CGC AAG TTC CAC TAT CTC CCC TTC CTG CCC

S T E D V Y D C R V E H W G L D E P L L
TCA ACT GAG GAC GTT TAC GAC TGC AGG GTG GAG CAC TGG GGC TTG GAT GAG CCT CTT CTC

K H W E F D A P S P L P E T T E E F G G
AAG CAC TGG GAG TTT GAT GCT CCA AGC CCT CTC CCA GAG ACT ACA GAG GAA TTC GGT GGT

S G G S A Q L E W E L Q A L E K E N A Q
TCC GGT GGT TCC GCG CAG CTG GAA TGG GAA CTG CAG GCG CTG GAA AAA GAA AAC GCG CAG

L E W E L Q A L E K E L A Q G G S G G S
CTG GAA TGG GAA CTG CAG GCG CTG GAA AAA GAA CTG GCG CAG GGC GGC TCC GGT GGT AGC

A T P Q N I T D L C A E Y H N T Q I H
GCC ACA CCT CAA AAT ATT ACT GAT TTG TGT GCA GAA TAC CAC AAC ACA CAA ATA CAT

T L N D K I F S Y T E S L A G K R E M A
ACG CTA AAT GAT AAG ATA TTT TCG TAT ACA GAA TCT CTA GCT GGA AAA AGA GAG ATG GCT

I I T F K N G A T F Q V E V P G S Q H I
ATC ATT ACT TTT AAG AAT GGT GCA ACT TTT CAA GTA GAA GTA CCA GGT AGT CAA CAT ATA

D S Q K K A I E R M K D T L R I A Y L T
GAT TCA CAA AAA AAA GCG ATT GAA AGG ATG AAG GAT ACC CTG AGG ATT GCA TAT CTT ACT

E A K V E K L C V W N N K T P H A I A A
GAA GCT AAA GTC GAA AAG TTA TGT GTA TGG AAT AAT AAA ACG CCT CAT GCG ATT GCC GCA

I S M A N *
ATT AGT ATG GCA AAT TAA

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Fig. 31

DRB1-biotag construct translation PROTEIN-DNA

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1/1                               31/11
M V C L K F P G G S C M A A L T V T L M
ATG GTG TGT CTG AAG TTC CCT GGA GGC TCC TGC ATG GCA GCT CTG ACA GTG ACA CTG ATG
61/61                               91/31
V L S S P L A L A G D T R P R F L E Q V
GTG CTG AGC TCC CCA CTG GCT TTG GCT GGG GAC ACC CGA CCA CGT TTC TTG GAG CAG GTT
101/41                               151/51
K H E C H F F N G T E R V R F L D R Y F
AAA CAT GAG TGT CAT TTC TTC AAC GGG ACG GAG CGG GTG CGG TTC CTG GAC AGA TAC TTC
181/61                               211/71
Y H Q E E Y V R F D S D V G E Y R A V T
TAT CAC CAA GAG GAG TAC GTG CGC TTC GAC AGC GAC GTG GGG GAG TAC CGG GCG GTG ACG
241/81                               271/91
E L G R P D A E Y W N S Q K D L L E Q K
GAG CTG GGG CGG CCT GAT GCC GAG TAC TGG AAC AGC CAG AAG GAC CTC CTG GAG CAG AAG
301/101                               331/111
R A A V D T Y C R H N Y G V G E S F T V
CGG GCC GCG GTG GAC ACC TAC TGC AGA CAC AAC TAC GGG GTT GGT GAG AGC TTC ACA GTG
361/121                               391/131
Q R R V Y P E V T V Y P A K T Q P L Q H
CAG CGG CGA GTC TAT CCT GAG GTG ACT GTG TAT CCT GCA AAG ACC CAG CCC CTG CAG CAC
421/141                               451/151
H N L L V C S V N G F Y P G S I E V R W
CAC AAC CTC CTG GTC TGC TCT GTG AAT GGT TTC TAT CCA GGC AGC ATT GAA GTC AGG TGG
481/161                               511/171
F R N G Q E E K T G V V S T G L I Q N G
TTC CGG AAC GGC CAG GAA GAG AAG ACT GGG GTG GTG TCC ACA GGC CTG ATC CAG AAT GGA
541/181                               571/191
D W T F Q T L V M L E T V P R S G E V Y
GAC TGG ACC TTC CAG ACC CTG GTG ATG CTG GAA ACA GTT CCT CGG AGT GGA GAG GTT TAC
601/201                               631/211
T C Q V E H P S L T S P L T V E W R A R
ACC TGC CAA GTG GAG CAC CCA AGC CTG ACG AGC CCT CTC ACA GTG GAA TGG AGA GCA CGG
661/221                               691/231
S E S A Q S K G G S G G S A Q L K K K L
TCT GAA TCT GCA CAG AGC AAG GGC GGC TCC GGT GGT AGC GCC CAG CTG AAG AAG AAA CTC
721/241                               751/251
Q A L K K K N A Q L K Q K L Q A L K K K
CAG GCT CTG AAA AAA AAG AAT GCC CAG CTC AAG CAG AAG CTG CAG GCC CTG AAG AAA AAG
781/261                               811/271
L A Q G S G G S A G G G L N D I F E A Q
CTG GCT CAG GGT TCC GGT GGT TCC GCG GGT GGT GGT TTG AAC GAC ATC TTC GAA GCT CAG
841/281
K I E W H * *
AAA ATC GAA TGG CAC TAA TAA

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Fig 32

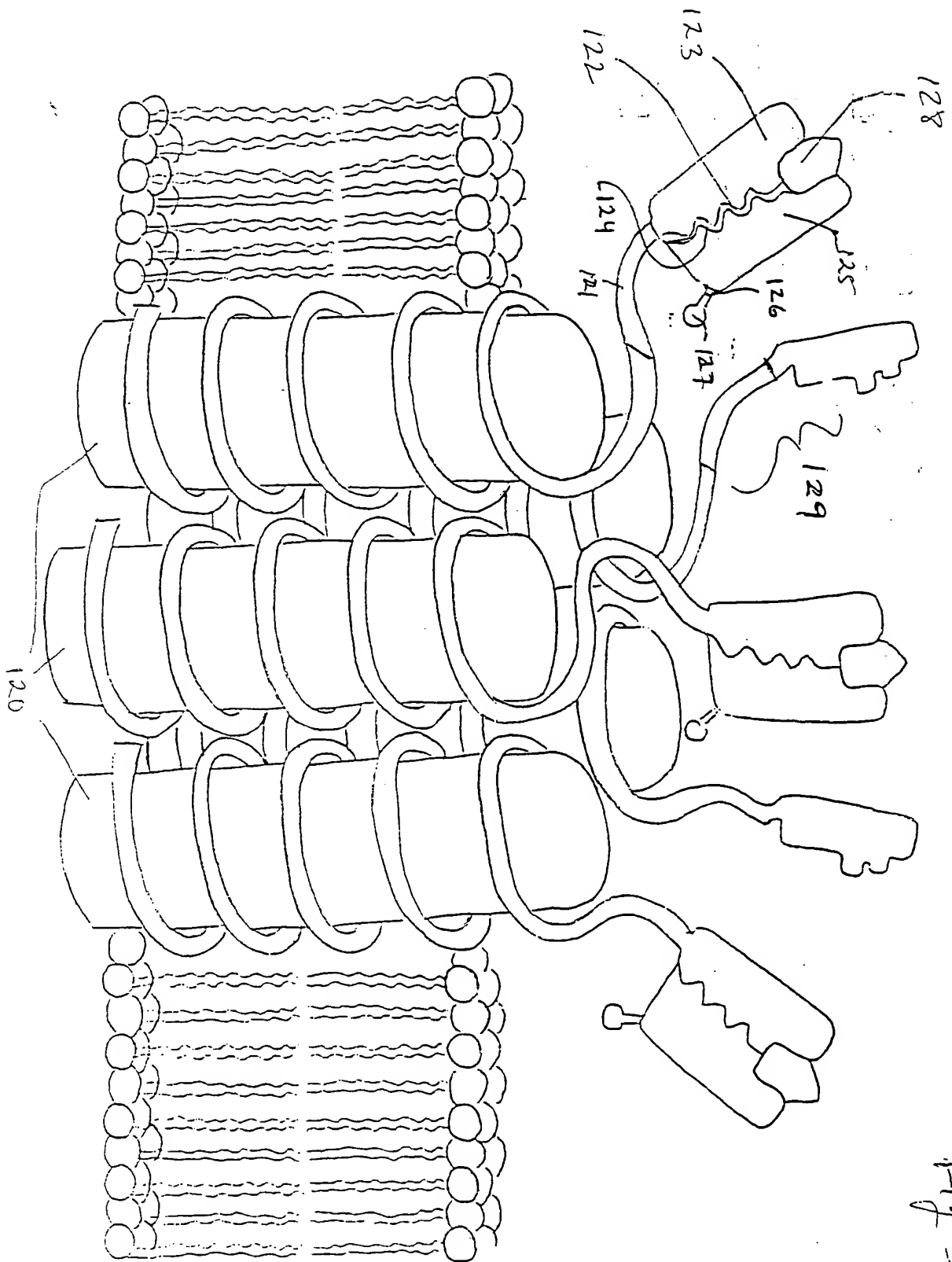


Fig 33

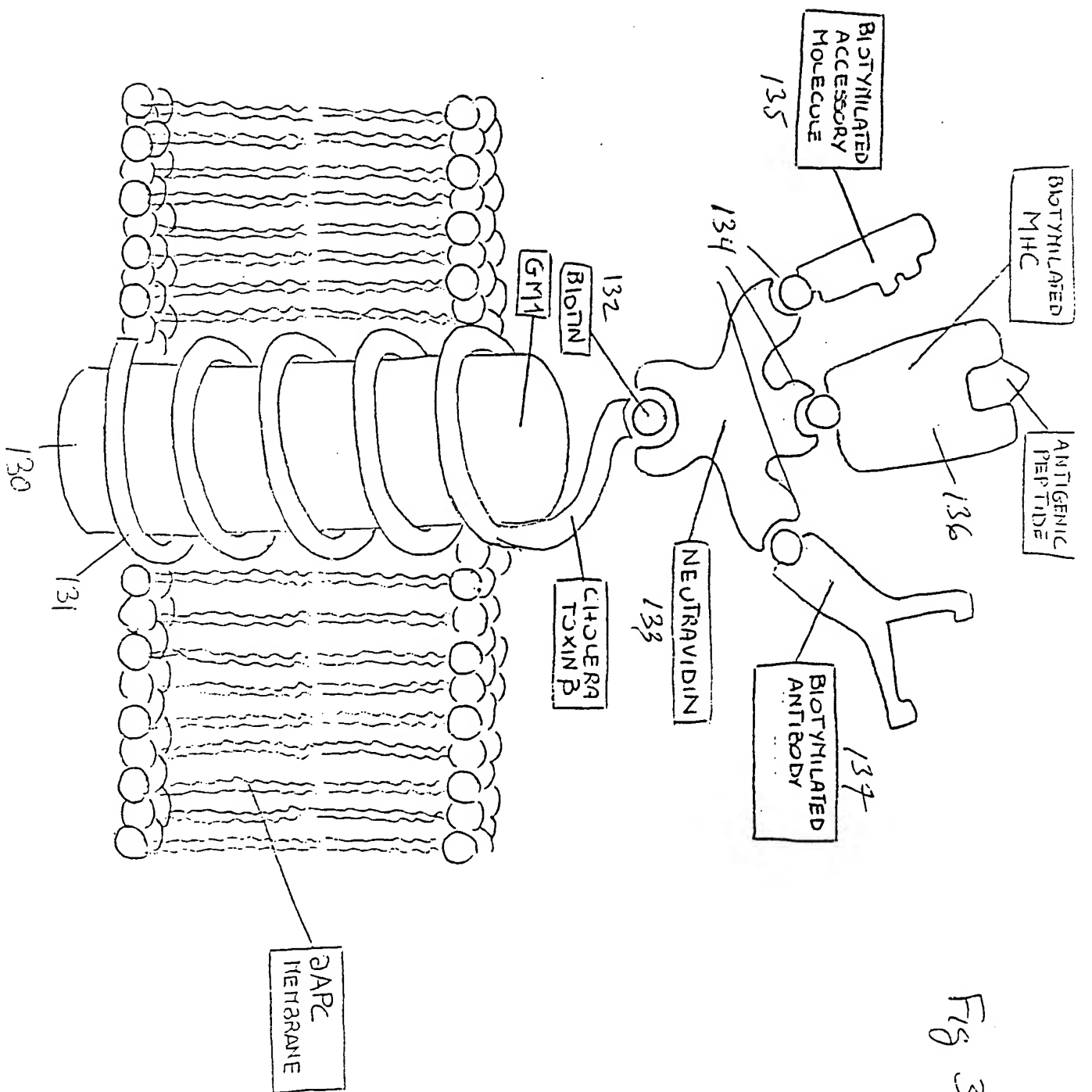


Fig 34

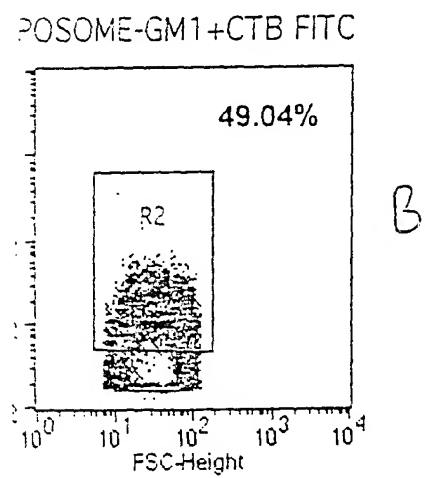
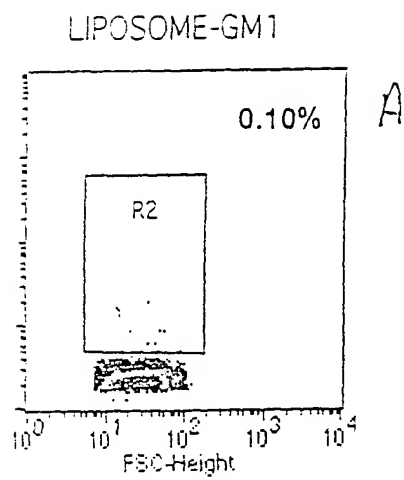


Fig 35



Name	Parameter	Gate	p MOLES CTB FITC	GEO MEAN	%GATED M2
lip.001	FL1-H	G1	CONTROL-0	2.32	8.1
lip.002	FL1-H	G1	25pMOLES	2.25	6.1
lip.003	FL1-H	G1	50 pMOLES	3.17	27.2
lip.004	FL1-H	G1	100pMOLES	2.78	20.4
lip.005	FL1-H	G1	200pMOLES	3.07	27.5
lip.006	FL1-H	G1	400pMOLES	3.52	40.4
lip.007	FL1-H	G1	800pMOLES	5.59	73.0
lip.008	FL1-H	G1	2000pMOLES	7.57	82.4
lip.009	FL1-H	G1	5000pMOLES	20.82	97.1

Fig 36

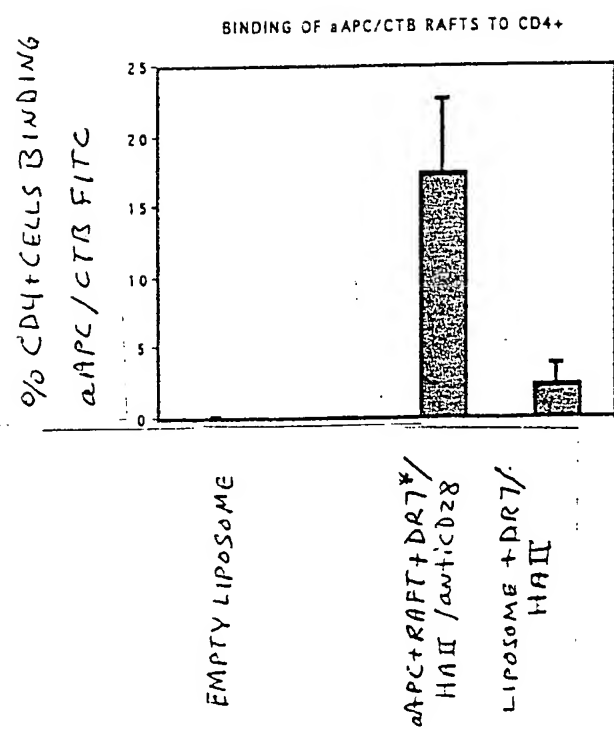


Fig 37

Fig  
38 A

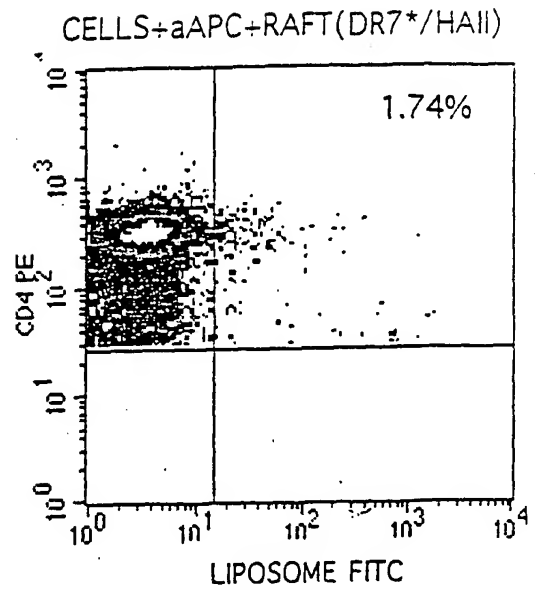
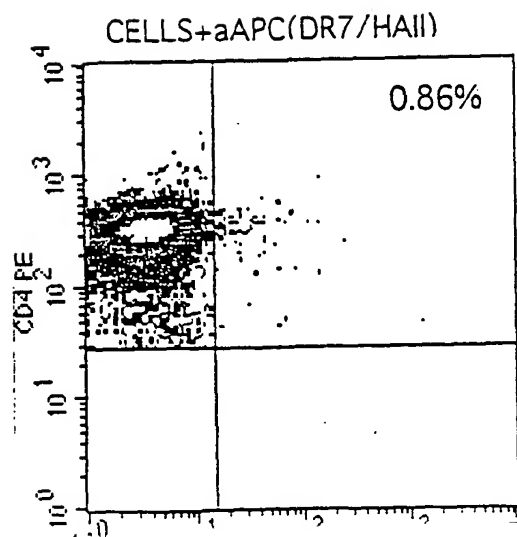


Fig 38 B



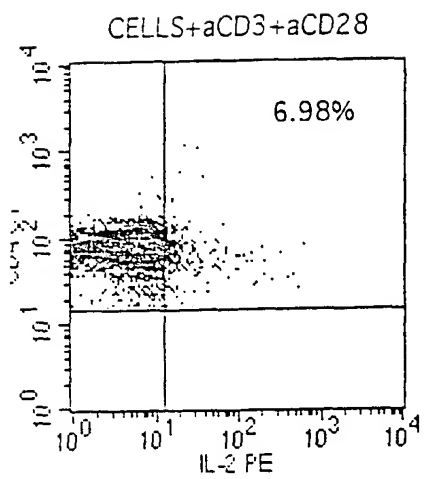


Fig 39

A

CELLS+aAPC+RAFT(aCD3+aCD28)

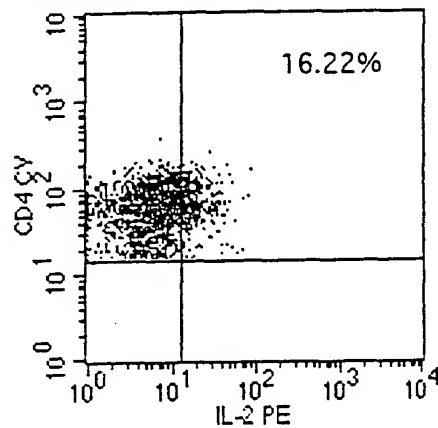


Fig 39

B

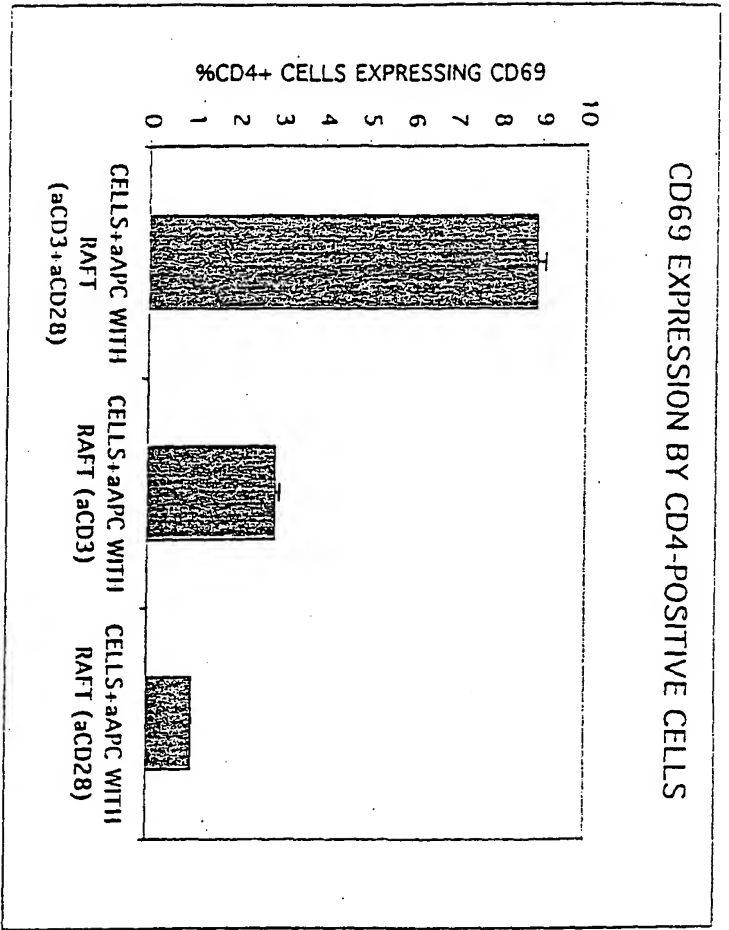


Fig 40

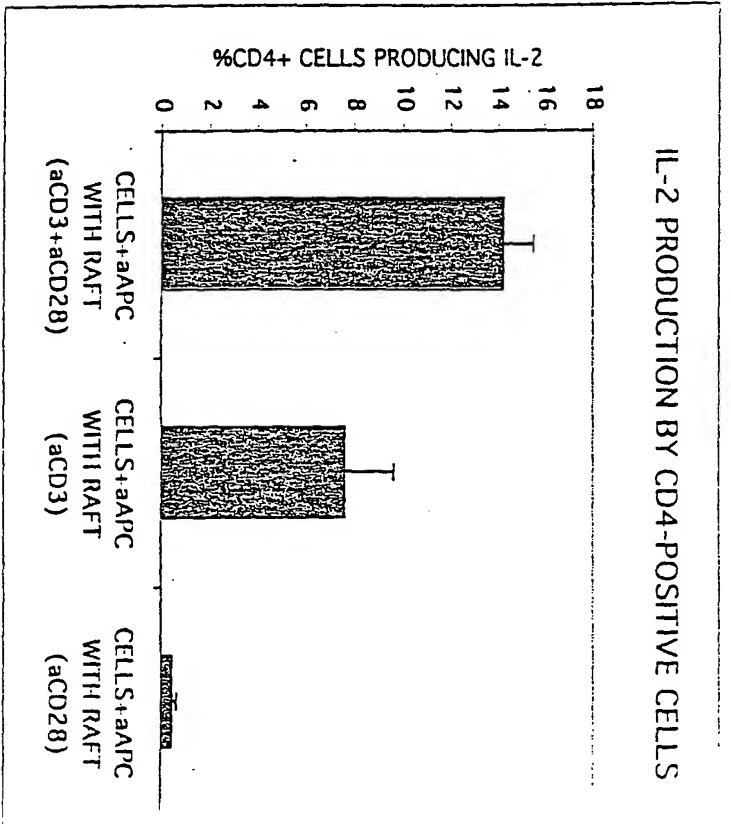


Fig 41

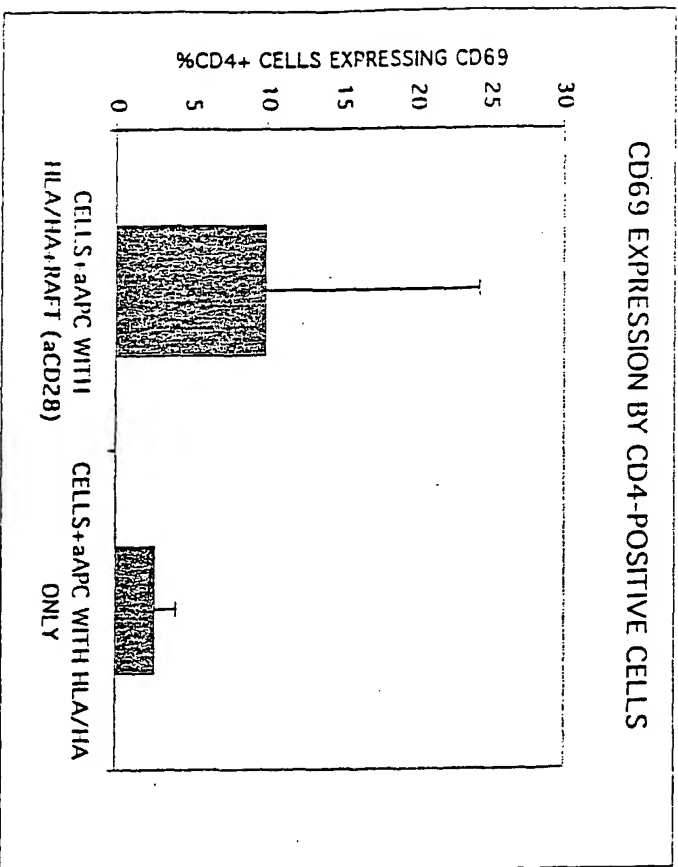


Fig 42

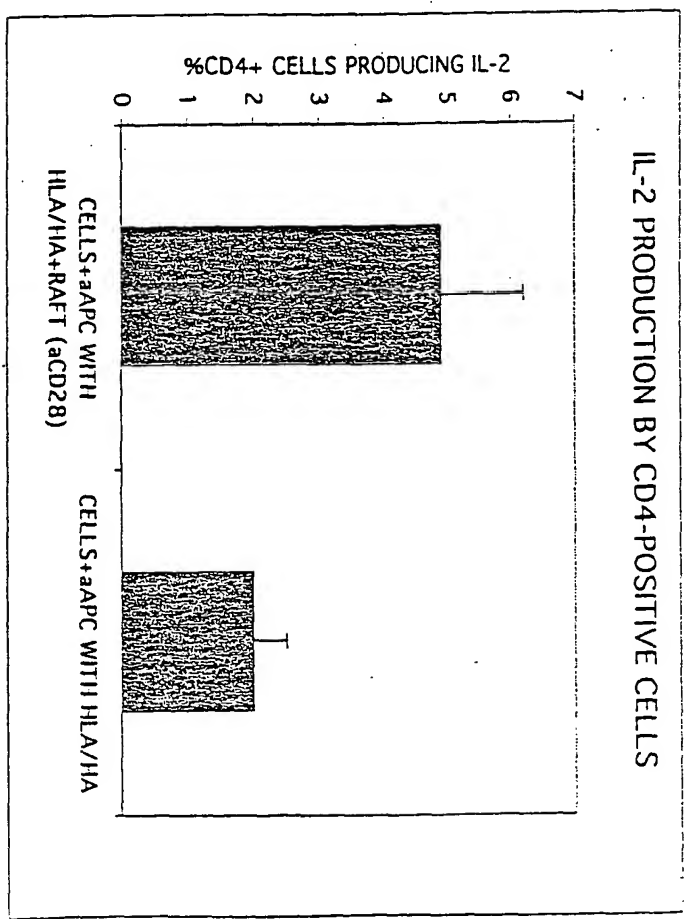


Fig 43